```
   1 acatttttaa agtagctaca atattttaa aattgaaata aaatgtttat tttagaatag
  61 ttttataatt actgaaaact ttcaaagaaa gtacagagaa ttcccataca caccacaatc
 121 agtttccctc attaacatct ggcattatta ctatagcata cggtcacaac tcatgaacta
 181 gtattgctat attgcttatt aactgaactt tatttaaatt gtattagctt ttctctaatg
 241 ggctttttct gtttccagat cctgtctagg acagtagatt acatttagct gttgtgtctc
 301 cttaggctcc tctgggctat gccccctttt caggctttcc ttgcttattc atgacctttα
 361 cactttgggg ggctactggc caggtatttt gtacaatgtt cctcaattcg gttttgtctg
 421 atgttttcct caggtaggtg ggtgtattag tccattttca tgctgttgat aaagacatcc
 481 ctgagactgg gaagaaaaag agttttaatg gacttacaat cccacatggc tggggaggcc
 541 tcgcaatcat gacagaaggc aaggaagagc aagtcacatc ttttgtggat tgctgcaggc
 601 aaagagagag cttgtgcagg gaaactccta ttttaaaac catcagatct catgagactc
 661 attcactatc atgggaacag tgcaggaaag accggctccc ataattcaat cacctcctac
 721 ttggttcctc ccatgacaca tgggaactgt ggaagttaca attcaagatg agatttgggt
 781 ggggacacag ccaaaccata tcagtgggtt atggtttggg gaagaaaacc acagaaattt
 841 tgtgccactc tcaacattat atattaatct acatgacttg tcactgatga ttttaaaatt
 901 ggtcacctgg aaaacatagt gtttcctggg cttctccact gtgaaattaa ctgttcctac
 961 cacttgcctc tccctactgt gctatttgga aatgaatcac taagcccaca cttaagggat
1021 ggggagttaa gtttcacctc ctcaggtaga gagtagtgcc taaataaatg atttaaattt
1081 tttctgttga ggaaatctgt cttttatctc caacttattt attttttcaa taatttattt
1141 ttatcagtat aggcccatgg atatttgttt tatatttaga aatataatgg aggaatatgt
1201 tattttattt aattctattt tttgctccaa ttgttccaaa tttggctatt cagagctctt
1261 tcaattggct cctgtgtcct tttgannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
1321 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
1381 nnnnngagct gatcatcatc attatcctgg agattccatt gttgaactat acggttgaca
1441 tatggagcat agccaataaa tcctgcaaca cagcagagag aaagtagata atttaggatt
1501 caaagaccaa aactggtgtc atgttaattt cactgaccag ttgaacagag ttgtgaagtc
1561 atgaagccta attcttaggc tggaatttca cagctcacca tgaaagaaat atgaattatt
1621 gagtgcccct tgttttatat ataaactcca atagagtgtt tgctaccaac tgcaaaacag
1681 aaaataacca aactcttttt aaataaatgt gtctccaaaa gtaattgaca aaagagggag
1741 aactaatgtt ttccaaggct cctaagggaa acagatttac taggaaaaga atagactgag
1801 acaagaattt tttctctgac cttctaaaaa gctcttcttg gattctctgc ggagaactca
1861 ctctttctta cagaataaaa tctctactac agtggtttta ctgtcagtgc cagagatgct
1921 aatgcaatca aacgaatgct ggatttgtca ctaactgcaa acatcccaaa gaaatttᴛat
1981 atctaagaca ttttggaaat gtttccatta ctttggccag tcattattgt gcctgctaaa
2041 ccattttctg ctaggttttt ttgtgtcata gtctggaaaa aggaagtcta aaattggatᴛ
2101 gttctccttg gccttaaagc ataagcatta agaccaccaa taacatttgt ctattaaaga
2161 cacgaacgga atcattttc ttgtctgaat cttcctctga attatggaaa tgcagccaag
2221 ctgctatgtt tcattgacat tcaatacttt taaaaaggaa ccaatgttac ᴛcctgtgagᴛ
2281 tgaagaaaaa tctattttt aactgtcaaa attaaaattt tcttaaaaga attaaaaaaa
2341 ᴛaggtccagg gaaattactg ttattggaga aaaaagaaaa aatgaaaaca tgaccaaaaᴄ
2401 caatcaatgg ttgctcattt tttggttctt gccatataaa ttttttttttt ttttttttᴄt
2461 tttttttttt tggaaacaga gtctcgctct gtcacccagg ctggagtgca aaggcacaaᴛ
2521 cttggctcac tgcaacctat gcctcccgag ttcccctccg ccttccacct cctgcctᴛag
2581 cctttcaagt agttgggatt acaggcaccc atcaccatgc ccgactaaᴛᴛ ttᴛgᴛatᴛᴛᴛ
2641 ᴛagtaaaaat ggggtttcgc catgᴛtggtc aaactggtct cgaactcctg acctᴛaggᴛg
2701 aᴛctgcccgc ctcagcctcc caaagtgctg agattagagg cgᴛgagccaᴄ caᴛgcᴄᴛggᴄ
2761 aᴛcaaataaa aaaattcᴛgg ggagaagaca atacattttt taaatcccat ggᴄᴄaatᴛᴛᴄ
2821 cᴛgtgaᴛgaa aaaatgᴛccc cacagagaca cᴛcaacattᴛ ᴛccaatgggᴛ ᴛnnᴄnnᴄᴛnn
2881 nnnᴄnnnnnn ᴄnnnᴄnnnnn nnnnnnnnnn nnnnnnnnnn nᴄnnnnnnnn ᴄnnᴄnnnᴄᴄ
2941 nᴄᴄnᴄnᴄnᴄn nnnᴄnnnnnn nnnnnnnnnn nttatgaata aaagacaaaa gcctgtgtcᴛ
3001 atagcacagt cccgtggatc ctcaggctct aacctcttag ggatttcatt atcatcᴛcᴛᴛ
3061 ᴛgaatcᴛtca ggctccaaat tctcaaatat ttgaaatcca caaattggct ataaagᴛcᴛᴄ
3121 cᴛaaaaagga tcacacccat ccttacaggc tctatccact ctgggccacᴄ aaacacttga
3181 aᴛctcagagg aaggtctcᴛg tcctcaaggg tatcacaggt aatᴛttcaaa ᴛᴛaaaaacᴛg
3301 ᴛcᴛᴛᴛtgagᴛ ggctᴛᴛattᴄ acatgtcaᴛᴛ ᴛcaaaatacᴄ agaaaatgᴛg ᴛᴛᴄᴛᴛᴛᴛaaa
```

FIGURE 1

```
3361 attgtagcca attaaacaca taaagtctat gttatcatca tatgaaacag aaaaaaagtc
3421 cagattttgg ttttcaggga accaaggatc cagtccctac aatgtcacag actatgtggt
3481 ctcagtttct ctactgataa agtgtggata cagagtctag cctctagcct atctaggatc
3541 aaagaagctc agagaggtac aaagggcttt gcaaggctaa agactacaaa tgagaataca
3601 ctgcattttt ttaaactgca aaagttcact ctggtatcaa atggctttgg tgtagcttct
3661 gagaaaacaa ttatagctgc caagatggag tgaatacaag aatacacatt tctaatgctc
3721 tatgttaata aatgacagtt atttattcaa gaatataaaa gaagacattg tctagaatct
3781 ttaggatttc attattgtct ctttaaatct ccaagctcag aagttttgat aatgtaacct
3841 attctgttat tttaaggcag cctaagtgag tatgcagtgg aggtagggcc atgacagtgg
3901 tgtgagggct gccatttcat tttagtatca agtcatttca atatgtgttt caatacatat
3961 agcactgcat tatatagttc ttctttcctt ctgcctgatc caaccaagtt cggcaagttt
4021 gccaacttgg ccacaaaaga gaagccataa agacatacta agctagtgct gatatccagc
4081 caggtgacat aaaccaatct cacctattaa aatatgtttt caacattttg aaattcagtt
4141 taccatttgc catactatca taaaaccttt gtttctgacc actccacatt aacacaattt
4201 aacacacaaa acaaccaatt caataaaaca aaaaattgc agctgtnnnn nnnnnnnnnn
4261 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
4321 nnnnnnnnnn nnnnnnnnnn nnnnntttt ataagaaaa tcatgaagat atacaaacaa
4381 aaaaatgaat actatcacag tgttttacat tgtttactaa ttgatagtgt gttcatggac
4441 aaatttaaat ttattcttaa ctatctctgt tttcagttac aagcatttat tgtcattgta
4501 accgaaaata caactcttaa acgaagttat gccatcttca ttagatctac catatcctag
4561 ttcttactga tttctactgg tgcttcaaca tttcttatag gagctctgtc atttcttact
4621 agagctttca gaataattta gatgacaaac gtcattgaa gggctaaact gactacatcc
4681 taggcatatc accaaaacaa atccagattc cccaaatatt tttgtcttca tcaaaataaa
4741 agcaaatgtt tttagctgta tcattttaaa cacacacata caaaaccaaa aactaaaact
4801 gctatggtga cataataaac ctagataggc atgtattaat ctaatccagc cattcccaat
4861 ctagttttgt ctatgtgtta atttgaacac taaggtacat ctacctacca cctgaaatta
4921 tcacaatgag caaaacaaat gaaattttaa aataaataaa taccatgtgt agttgggtg
4981 tcccaactcc aaataatgtg aggaagatca acattctaat ttgaatgcaa gatactcctc
5041 tgtagatttg ttcagcagga gtttcagcca taagcttaac tatagttact gttacgagca
5101 aagaaactac aaaagtaaaa aacaattaca taaaaaccaa actttcaaat aaaaattgcg
5161 aaacataaat ttacaattag aaagtacagt tatggtagtc cacaaagttt tcttttgtac
5221 ttttgttatc atgaattttt aaaaggctga gtcaaattaa atccttcctt ccttaatgag
5281 ccagaatttt attactgaca ttatcaaaat ccagaagctg tgagtaagcc ccactttat
5341 ctcagaaaag tgacactagt cagctaagaa tttactgaaa gttatagggt gctgtataaa
5401 ataagagcac tagtaaataa gaaatgaatg aataagtcaa acaaatatca taaaattgta
5461 attaggatta agttgtacca tgccgtctct tccataaaag ttacaatcca ctggcctcaa
5521 aacaataagg atggtgaggg gacataaatt tctattactt agttgcctct attcataag
5581 ttctttttt tcccatgact ttattagaaa ttggtcttct taaaagctga caaagtattc
5641 aacatgctta gaactttata atagagctcc acgttaaaaa gcatgtattc catgtaatgc
5701 taagccctta cttgggtccc tattgtcaaa aacatccata aaaattaaa ataattactt
5761 gcttgccaa gcttcaggaa gaacaattac tgaaaaagtc atgagaaaat caaatattca
5821 aggtgcattt ctccaagttc tttggagcta aacatttgga tgtaaattat acccctttc
5881 taagatgtat tcctgtgaga ttgaaaaac agatggtcct atcctatca cttttggcca
5941 tttccattgg taagcatggt cagaaggata cggtttaccc tacaccagtg ttctaggttc
6001 aatctcacac tttgtggaa ctgggagga gggcgggtgg acggagaggg agaaaaac c
6061 agagagaggc agagagacag acagacatac ggacagcagc aaaggctgtg gctgaacc c
6121 gcattgttgg tatagtcact gcctcatggg cataaggaat caacagagac acccccctcc
6181 tccctgggtc acatttatgg aagcctattc ctgaattcaa tacttccaat gttggtttc c
6241 tgattcccg ctggacaga ggtagtagcc tcctagtttg gtcagtacct tctctcactc
6301 tagaagtcac tgctgaaagt tttgctaaag cccattcttc caggctttcc agtaattgtc
6361 taagcttgta attactttg ttaaatctgt cttgctcaa gatatctaaa atgggttctt
6421 cgttgaata gaaccctgac caacataggg ttcctgctta tcttgttagt tgtgacttagt
6491 gcaagccatg ggttaatgga ctatccctct gtaaggccta taggcagaga agcttccgag
6541 gttgggagtt ctaaggcaca gcaattcaag agatacgatc tctatcctct tgcaggttaa
6601 aatccaacta agaatgtaaa gttagttcat atgaaagac tgagaataac atactaaata
6661 ctaattaaa tcacagatta tatattgca gagaatactg taggagttca acattgaagg
6721 aacaataaa atctacaaaa aaatcattag aatataaac ctaatatatc tatgttcagt
6781 ccttaaaaaa tgacacacag tatttttat gtcaaggaac ctggaaatat aatccttct
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FIGURE 1 (continued)

```
6841 cctccaaaag atgtgtaaaa gcatgatctc ttgactggat agtgaggaat ccagtatgaa
6901 cagagtgcaa attgggaaat gataataaat acatttggaa atagagaaga cactagaagc
6961 ggggcagtga aattagaagt gtgccatcag actgtagcag agtttcccaa cttcagcact
7021 attgacattt ggggccagat aattctttct tggggtgggg ctgggagaga gtgatggggt
7081 catgctgtgt aatgcaggac actttagcag ggtccctgga ctcaaccgac aggatgcaag
7141 tagcacccac tgctcaaaac aaaatgtctc tagacgttac caaatattcc agggggggaca
7201 aaaccactgg accataggct gaaagtcata gcatgcgaag agtcactgga cttaagaaag
7261 atgagacaag aaaaataatt tcagaaacaa tgataattat ctaattcagt gatgtataca
7321 gagagggggc tgcaaacaca tcagtgaaga ggccaggcac ctgctatggt gactggagtg
7381 cacaagcacc ccatccaagg agaggacttc tcagagtcag ccagctggtt ttgccatacg
7441 ggaaggaaaa cccaggggttt ccaggccttc ttttccttttt ttctcctcca aaacaagaaa
7501 gattctgatt tttaagtaaa atttcctgaa acatagaact taatttgagg cttttgaaaa
7561 acaatattta ggctagattt gaccctgaag ctaccagagt cctgcagtgt agactaaggt
7621 aagtgacagc ttggaaggtg tttaggaaga taaatttatg gatccggatc aaacaaacca
7681 actataaaaa gacatacttg agaaaaagag gcaaaggtga atttggatag gtattaaaata
7741 acattaagga atcactgttg aatgcaataa caatattaag atcatgttaa aaataatctt
7801 tacccgtttc aaatatctaa tagatatcta attatttata caggcaggca ggcaggcagg
7861 cacgcacaca cacacacaca cacacacaca cacacttttc actacagatg aaacaaacaa
7921 aaaaagacag agacaaaata atgagcaaag cactatacct aaatacgaag aataaatcag
7981 aggaatgaga aaaaaatgac ttcaaagttt tgaagttcaa agttagaggt ctctagtctc
8041 cttgtatagt gagcgccctc tggctatatc aagaaagcaa acactcctct gtactgtttc
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8161 taataaaaga ggaaataaca caactctcca ataattcaaa gcacaacaga cttgtaccct
8221 aatttatcag aaataccaag tgatataaaa cacatccatg gttgcataat attacaacat
8281 ctatatttct gaatctctgc tgattactga agtaaccagc tgacttcctg aaaccaaata
8341 aaaaacaaat tcagcactat acactgtctc agtgtatatg ttgcaagagg gtccatgcac
8401 actggaccat aggctgaaag tcatagcatg caaagaatgg ctgggatatt ccatttgtta
8461 cggttaatat gaaatgctac aaccacaata agcataatcc acagaaataa atcccaagga
8521 tgaaactacc caaaccaaat ttctgttcag ggaagaattc nnnnnnnnnn nnnnnnnnnn
8581 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
8641 nnnnnnnnnn nnnnnnnnnn tggctcactg caacctatgc ctcccgagtt cccctccgcc
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8761 gactaatttt tgtatttta gtagagatgg ggtttcgcca tgttggtcag actggtctcg
8821 aactcctgac ctcaggtgat ctgcccgcct cagcctccca aagtgctgag attagaggcg
8881 tgagccacca tgcctggcat caaataaaaa aattctgggg agaagacaat acattttta
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9181 gctagagtg caatggtgca tcatggctc actgcagct cgacctcctg ggctcaaagc
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9301 taatttaaaa aaaatttta gtagaaatgg gatttcccta cgttgcacag cctggcttga
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9601 attggatgtc cttttatgat tacttccca cttaaaacac ctttttccta attaaatta
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9781 gtaagtcatc ttcagaaaaa tttcaacaag tataaaatta gacatgttct catgtctgat
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9901 agattagcca tatattactg aggtcttgac agtatggagg ctatgatgtg gaagaagac
9961 ccatccatga gtcgtatgct caagagaga agtgatggtg ggtagcata ttaggagag
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10081 gagtaaccaa catgataaac cttgggtctt cacttgaata tggaagttaa atccaaggtc
10141 gatagataga tttggagaaa agaaaatggt caagagattc cagaaagtat tatctgtagt
10201 tatattgaga cgaagaggaa tataattttc aaaccaggca ttgaaattg gaattaaggc
10261 tttaaaagt agaagactta tattttctt catagtttta aggtaaaact gttggacact
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FIGURE 1 (continued)

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10321 gttgataaaa taaagtgcag gtgcaaagag ctgaaattga ggcattacca agaaactaaa
10381 tcacttccta gtggctaagc aaagcctaga acccagatat gctgctacct gaagcagcac
10441 ttattttaac tagcctggat agtactggtt atatacacgt agatcacccc caaaatccat
10501 ttttccaatg tggtttgcaa tttgtaccca atttgtttct ctaacatgtc cttcatccta
10561 tttggttatg tcttttgtcc ctatgtttac attaatctca aactagtaaa aataaatttg
10621 tagccattat aatttccaag gtcaaatttt atttaatttt ctaaaggctg gactgaggaa
10681 tgtggtaatt cattccttta atccgtggta gcacagctaa tgcaatattt taagtatacc
10741 cagacactca atgttagata ttttcacta ctgggttcaa gacaaatcat ttatttaatc
10801 ccataatgtt taaaatcaga taatattaag taatacctat tcttaaaagc tacttgattg
10861 cggactgaga ataatttttt ttcaagtaag gaagcttact aaacttatta tcctagagca
10921 agaaaattct caatgtgtca taattaaagg aactggatcc atactttct tcctttaaca
10981 acagaatatc tctagaagtc acttaaattt gaaaaacatg agtttcctca cttataattt
11041 ggtaattata acatttatat tacctagtgt ttttaggaac accaactcac ataatacatg
11101 ggaaaatgct ttgtcaatat actaataata aaataaggt tatttaaaac ttcatatcta
11161 aagttactac atctacaaaa atggttgttt cattagtctt tataacttgc attaaacttt
11221 tcttccagta tctaactcac ctcctgaatt cagatagcgt ttcccaatgt gcacaacagg
11281 atacttgtct gctagtcttt tatctggcca caaaattcca tctgctgcaa agaccacttt
11341 gtggtttgcc ttttggaatt tttttagaac ttcttctgga ccaccagcaa atatgacatc
11401 aaagctgttc aatgaggaaa aaatgtgttt taaaatacac ttgtcagaat ctaggcacat
11461 aaaccatgaa aagttctcta acaaaagtca gaatcaagaa tacaatgcaa gattaatacc
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11641 tgttagcctt aatttttttt tcaggaatca cttattccca aattgaaatt ctgaaacagc
11701 attaaaatgt tagaaataca gttacttgtt gtataacttt ataatacaga tagaatcatt
11761 tacggaagtt gccataactg cctaatattt caagtaaatt tgtaccagtc cattagtttc
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11881 atctgaatga ctgtttagca tggaatctta aaataagtgc gttcagacaa ctgcaggttt
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12001 tgtaaaaact gacactataa tttaattaat ataatataat ttcattgatt tttctgatga
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12121 agccactatc taaaattttt ctactctgca ataagttctt tattcattac aatcacaaat
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12241 taatgactta ccatcccagg tagctaacag cataattgta aagtcactca cagcatacaa
12301 tttgaagtct gccaggtggg tttctaatcc cacctctgcc acttgatatg agaataacct
12361 taggacaagt cacttaacct ctttacactt aagtgtaaag tataaaatgg agggaaaagt
12421 agtatctata tcctcaagtt ataatttaaa aaaattaaaa ataactcctg gcacactgta
12481 aacactgaac aaagttaaaa attaacatga aagggactac agtaaaggga gagacagagg
12541 aaaactcact tcaaagtttt tacaaatgtg tatgttaaaa aattttattt ttagccaaat
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12721 tactttttct gctaagtaca actgattttcc tcaaccggat ttaacggtga tattttcctc
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13081 tgacccagca atccattgc tgggtataaa cccaaacaat tacaaatcat tttttctataa
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13201 acccaaatgc ccattaatga taaactggaa aaagaaaatg tgacacatat acacaatgga
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13321 gaatcccata attctcagca aactaacaca gaaacagaaa accaaacacc acgtgttctc
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13501 tcatgcaggg cttaaaacct agatgaggcc gggcacagtg gctcatgcct gcaatcccag
13561 cactttggga ggtcaaggcg ggcggatcat gaggtcaaga gatcaagacc atcctggcca
13621 acatagtgaa accccatctc tactaaaaat acaaaaatta gctgtgcgtg gtgatgtgcg
13681 cctgtaatcc cagctacttg ggaggctaag cagagaat tgcttgaacc cgagaggtgg
13741 aggttgcagt gagctgagat catgccactg cactccagcc tggtgacaga gtgagacttg
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FIGURE 1 (continued)

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13801 gtctcaaaaa aaaaaaaaaa caaaactcta gatgatgggg taataggtgc ggcaaaccac
13861 catggcacat gtatacctat gtaacaaacc tgcacgttct gcacatatat cccagaactt
13921 gaagtaaaat aataataaaa tttaaaaatt aaaaaaagtt ataaatgcac ttttggaatg
13981 tgagtgaata ttttttgtct ttgaacccct aatgatggat acagattata taaacagtat
14041 agctcaaact attaataaat gtcagttgtt tgaaaaagag ttatggcaac ttttataatt
14101 tagcgtttta taagcctgta ttatctttat aacaaacac aattatttta aagcaaaaag
14161 ttaagacaaa agttatcaca taattgcctt tgaagaaaaa tttcacgttg ctgaaacctt
14221 tcctatctca ttcgagtagc actgctattt ctgtgtttaa atactttaga aaagttattt
14281 gaacttactt aaaacttctc aaagggcaag gaaggtttcc tacttaaatt tattttggct
14341 gtaaaaagtc aaattgtcaa atttaaaaaa atgcacacag gtgttgcggg aagtcaggga
14401 ccccaaatgg agggaccggc tgaagccatg gcagaagaac ataaattgtg aagatttcat
14461 ggacatttat tagttcccca aattaatact tttataattt cttatgcctg tctttactgc
14521 aatctctgaa cataaattat gaagatttca tggacatttta tcacttccct aatcaatact
14581 cttgtgattt cctatgcctg tctttacttt aatctcttaa tcccgtcatc ttcgtaagct
14641 gaggatgtgc gtagccttag gaccctgtga tgattgcatt aactgtgcaa atcgttagta
14701 aatcatgtgt gtttaaacaa tatgaaatct gggcaccttg aaaaaagaac aggataacag
14761 cgatgttcag ggaacaaggg aggtaaccat caggtctgac tgcctgagag ccgggcggaa
14821 cagagccata tttctcttct tacaaaagcg aataggagaa atatcgctga attctttttc
14881 tcagtaagga acagccctga gaaagaaaat gctttcctag gggtaggtct ctaaaatggc
14941 cgctctagga atgtctgtct tacacggttg cagataaggg atgaaatagc cccagtctct
15001 ggtagcactc ccaggcctat taggacgagg aaattcctgc ctagtaaatt ttagtcagac
15061 cagttgtctg ctctcaaacc ctgtctcctg ataagacgtt atcaatgaca atgcataccc
15121 gaaatttcat tagcaatttt aatttcgccc cggtcctgtg atctcgcttt gcccccattt
15181 gccttgtgat attttattgc ctctgtgtgc ctctgtgacc cacaccctat tcatacactg
15241 cctcccttt gaaaatcact aataaaaact tgctggtttt caaggcaatg tagtgccctg
15301 aaaaccaagt acgtctcagg tatttcttat agcagcgtga aaatggacta atacagcaaa
15361 agaaacccaa attatcctcg aagagatgac ctgtagataa gcaaaagtat ccagccaaca
15421 gtcccagcta acaaccagac atactctcag tggagcagcc agattactgc agccacaaaa
15481 gtgaccccag gaaaaatcag tagaagaaca cagatgaatc caaccaaact gcataatcat
15541 aagcattgat ccaacaagca ttcctaataa gcctcccaca cactaatttc cacctaagat
15601 tctactttct ggagaaccca atctgcaaaa tttggtacga agagtgggga aaaggaaagt
15661 agaggtagct actggagaac gtgctccacc aaattaaggg aataaactaa gaaagaggaa
15721 gacatgaaaa acagggcaca gaagaatcca cacagggtag agtcacagag gattcccata
15781 tgatggtgaa gggaagtccc tgcaggccta gagacgcatc aatcccaact gcggaacagc
15841 acaggctctg agagggatgt cttcattaaa atcgacaaac tatcaatgta ttgactacac
15901 tgagaagaat tccaggattc tgtagaaaac ttggggggga tgaattaata aaatgaatat
15961 agaaaacaaa acaaaacaaa aaaacttgct ggttttgcgg cttggggggc agcacggaac
16021 ctgccaacat gtgatgtctc ccccggacac ccagctttaa aatttctctc ttttgtactc
16081 tttcccttta tttctcagac cggccaacac ttagggaaat aggaaagaac ctacgttgaa
16141 atattggggg tggttccccc gatacacagg tcataaaaat attctcacag aaattgagtc
16201 gactcacatg tgaagaaaat aaaatttttcc acatataact gtggtaagta tgcctgggtc
16261 ctgaaaaaac cataagattc tacctgatgt ggtcatactg agtcccctgc cagacatgtc
16321 agtgttctat ctcaatagat gattgagatt ttctaagtgt tttccttttt tgtccttttg
16381 tgttccctac ttctgtgaca acatcaacca catgtcacc taggttgaaa atctttcatt
16441 caccttcac tcctctcttt ccatggccta tctcatggaa tcttttcctt aatcctattg
16501 attccatcta cttaatttat tttgcattca aatcctctcc actccacta gaaggcacaa
16561 ggctagatta atttaaaac cctagagacc tctacattac ccatctcttc ttcactccata
16621 aataagactg tctgacaaac tattttaaaa atgattctgt gccagtcccc agactgtatc
16681 aatggttctc aactatggcc taaagcggga gtcagtaaat atttatcctc tggccttttta
16741 cagaaatat tttaggtcct gatgaccata ttgtctgtca cagtgactga actctgtcac
16801 tgtgttgcaa aagccaccac agacaatatg taaacaaatg agcacagctg cattgcaggg
16861 gtttttctctc cannnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
16921 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccatgtg
16981 gtgggcagga tttgggctcc catggtcttt gcatcttggt gttatgactg tgaatatata
17041 tgttacatgg aaaagggaaa tcagattgca gatggaatta aggttaatca gctgatcctc
17101 tgatgggaaa attatcctgg attttctggg tgggcttaat ataatcatat ggtatcttaa
17161 aagtggaaaa ggtaggcaga atgtagctca tacaagtatg acatgagaag gacttaatct
17221 gctgttcctg gatatgaaga tggaggaagg ggtccatgag ccaaggaatg taggtggctt
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FIGURE 1 (continued)

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17281 ctagaaactg ggaaggattc ttagctgata gccagtacaa aaacggggac ctctgtccta
17341 caaccacagg gaactatatt ctaaattctg ccaacaacct gaatgagaga aaaaaaaaaa
17401 aaaaggattc tctcttagaa cctccagaat agaacaaagg tggccaatat actagatttg
17461 gcctgctgag gacctatact ggacatctaa actggaagat gataaatttg tgttttacgc
17521 tacaaagttt ttcatttatt tgttatggaa acgatagaaa actaatatac tcagcttttc
17581 cactcctcta ttgctgaccc tgcagaccat acttctatag gaaacaacct tgctatgaat
17641 gatgagtaag ttcaattagg ctatagaaat attattccag tccgagagtt attccttcta
17701 cttacagtag ctgcatattt gtgctccatt tcattatagg ttaaatctaa aatacaatta
17761 ttgagtagca atctttcctc tctctttttc aaattcccat tgtgtggtgg gttatgtact
17821 aacaaaaact ttgatgattt agaattacac acaaacacac acgtgtatat atatatatat
17881 atatatatgc atatacacac acaaacacac acatttccag tgtgttttg tatgtatgtg
17941 tatatatata catgtgtata tatgtgtgtg tatatatata tgtgtatgtg tgaatgtgta
18001 tatatatatt cggttgtctc ttggtatcca tgagggattg attccaggaa ctccagtgga
18061 tgccaaaacc catggatgct caagttaagt ccctcatata aaatggtgta gtattttctt
18121 ataacctatg cacattttcc cgtatacttc aaatcatctc tagttacttg taacacctag
18181 tgcaatgaaa atgctgtgta aaatagttgt tatactttat ttttttaggaa aaatgacaag
18241 acaaaaagtc tgtacatgtt tagtgcagat gcaaccatca tttctataaa atattttaa
18301 tctgtggttg gtttaatcta cagatgtgga acccacagat atgaactgta ctcacatact
18361 cacctaaaag gtaaactttt tcacactaaa ataaacaaaa atgtacaatt tttaaaaaaa
18421 gttaatagga aatataatat aaaaagtata aacaacttac tcccttaata aatgaccgta
18481 acctagattt tctttctgga taatattatc tcagaggtat tttatttccc ctaatacagc
18541 aattaaaaag attatttcct gttttattgt ttgtttcctt catttcactc aaattcatat
18601 gggtagagaa cttatcttta ttgatcacta ttgcattatc cataagacac atggcatgta
18661 gtatttgctt gatagatatt agttgaatta ataaatggat agaaaatgag cttaacaaac
18721 ataatttaac ccagtcacac aactaggaca catggagagt agaatggccc agcaagggtc
18781 acaggtacct agtgtaagaa ttaaagtggg gccagcgcg gtggctcatg cctgtaatcc
18841 cagcgctttg ggaggccgag gcaggtggat cacgaggtca ggagatcaag accatcctgg
18901 ctaacacagt gaaaccccat ctctactaaa aatacaaaaa attagctggg catggtggcg
18961 ggcacctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacctgggag
19021 gtggagcttg cagtgagccg agatcacgcc actgcattcc agcctgggtg acagagcaag
19081 attcctctcc aaaaaaaaag aaaaagaat taaagaagga ggaaagaaac acaaagggtg
19141 gcttgccagt taagacaggt ttattttaga gaaaacaaac ctgagaggag cttttgaccg
19201 agttagatta gaggcacact ttttcacaga ctaaacgttt ttaaggattt agggtgggag
19261 agtttattag aggcttggac tgctttgtg tttttttgt tgtgcttatt tgggagggag
19321 agtttattag aggcttggac tgctttgtg tttttttgtt gtgcttatt gggaggggaa
19381 gttacgtgtt tgttcccata cattttcctg cagcttcagg catacccctc cagtttgctc
19441 ttagcttcc tattttagtg cagctgaagg aaaagaatgt gcttattaag acccattgtt
19501 ttactgggc ccattgtgta aaggtcatgt ttgacagtta cacaagacac tttttcctt
19561 cctcctttg tgcccaagca ttttattgt gtttactgt ttgcttttaa tggctttta
19621 tagttaaaaa aaaatttctt aaaatgcata gggctaaaaa gaagctttaa tagcagtatt
19681 tgtccaatat aatggtgctt ctgctctgtc acctagtcat aatctttgtt taaaatatta
19741 gatgtcgtga tggttaattt tatatatcaa cttcactgtg ccatgggatg cctagatatt
19801 tggctaaaca ttattctggc tgtgtctttg agggtattcc tatatgagat taacatttga
19861 atgagtagac tgagtaaaat agattgcctt cccaacatg gatggttccc attcatcttc
19921 tcaaggcctg aataaaacaa agactaacta agagataatt ctctcctct gtctgtatta
19981 ttggctctcc cctgccttg gacttgaaca caaactggat ctagcagcac ctgtctttt
20041 agttcttagg cacttggact cagaaactaa accattgact tttttgggatt tttttttttt
20101 caactacaaa tcttgatat tcttcagcctg catatactata tggagaaatt ccttattttt
20161 aatcttttta catatatgag caaattttt ataatagatc tccttatatg cactgtatt
20221 ggtatacata cacagtgtc ttattctgt ttcctggaga atccatattt tataatcctt
20281 acacatacac acatgtatag attcctctt agttctgtca gtctggatac aaaagccaaa
20341 tacaaattct catcactct tgcttatca tgccttttct gtggtaataa agtcaaattt
20401 ctctctctgt tgataaagat tgacccctc ctctcttct acacacacac acacacacat
20461 acacacacac acacacacgc ttcaagcctc tcaagaggta gttcaataag ggtgggagct
20521 tttttttag tatgttgtgt ccctcctggg tatatcctgt tataggacat taacagtcat
20581 agccaattat ttgtgcaaa ggtgacatca cctgttatag agcatatttg ggttttccta
20641 gaaggctggt ttaggtcttgg gtagctaaat atattgactc gtcttttgct taaaaaaaa
20701 ttaactaaat gaaaatacta ttaattatta gtagttgtg ataatataa ggtcctagtc
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FIGURE 1 (continued)

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20761 gaataaagct aaaagtaaat gaaagagtgc ttattcttag catttaaaaa ttaattttta
20821 atttatcatg acattggtaa ggtaagaaaa aatgacctgc aaatctttct atatttgcaa
20881 attctaatgc atctttactt tataaatgaa aaaggcaaag agggctatgt ttaatatAga
20941 aaccaacatt ctttgactgg ctcaaggctt ctataattaa gcatttataa agtaaataga
21001 gctttccttt tctttcttt gacagagaaa ttagtgtggt tttcactgtt ttgtagtcat
21061 agtgacatgg tttgagggaa atgtctaagc cacagggcca agttctctaa aataattgtg
21121 ttaagaattt taaggacagt agcaggtgtc ttagtccatt ttgtgctacc ttaacaaaat
21181 atctgaagca aatagctaag ctaagtgatt ggcctaaaat caaatgaata tctagtgact
21241 cagtacttcc ttgaaaagct ccctaaggca ataacatcat tttatatgac agatccagca
21301 ccaataatca tatgttccaa aggtgacata aaaggtaaac ctgagggaat tttaccctgt
21361 tgacctatca gtggaatgag agagtttaga agatttcacg tttgtctttt gggaagtgta
21421 ccacaatttc ttcaaacaca ggacctaaaa ccaagtagga ggaaagctac agctgagtca
21481 acctgagtaa gggatttcat tcattcattc attcattcat tcattcattc attcagcacc
21541 tgtgtccaac accctgcaag gcactacaga ttcggcagta aataaaaatg aaatcattgt
21601 tcttagagtg cttgttctcc agggaacaaa gacagacagg caaacaaaca aagaatgaat
21661 aaaaaatatg aagtagatta gatagtggta tcagaaagaa aaagaaaaca aagtatgaag
21721 atagaaagaa acaaatgtct tggggggaact atttcagata gagtaaaggg aaagaaagat
21781 aggaaataag aagaaatagc acttctgtct ttttccaact ttataaccag gaattaagcc
21841 tctaaacaca gcttccttct tttttcatct tacaggtcct catgataata ccccaactag
21901 accttttaact tccttctttt cgtacaagat ctcctgctca ctaagatggc acacaacaga
21961 gataattgct tattttcaag gtttcagtgt tttctcataa acattataat atggcatata
22021 tattatttta tatattacat aatattaata taatatataa tattagtata taatgataaa
22081 tatgtattat atgtaataaa taatatataa actgtatttg atataataaa tatatataat
22141 aaatatataa aatataaact attcaatgta aataagatgc catatataat gatattttat
22201 atattattaa tatattgtga ttttaaaaag ggttttcttt ttttcttcaa cttttatttt
22261 gaattcaggg atatatgagt atgtttctta caaaggtatc ttgctaccca ggtagtaagc
22321 ataggactca gcagttagtt tctggaccct tttctctctc cctattcttg cagtccccag
22381 tgtctattgt tttcataaat actattgttt tatgtccaca agtgcccaat gtttagctcc
22441 cacacttaag tgagaacatg tactatttgg gtttttctgtt tctgcattaa tttgcctagg
22501 ataatggcct ccagctccat ctatgttgct gccaggaaca tgatttcatt cttttttata
22561 gctgaatagt attccatggt gtatacatag caatttttct ttctccaatc cactttcgtt
22621 gggcacctaa gttgattcca tgtctttgct attgtaaata gtgctgggat gaacataaga
22681 attcatgtgt cttttttggca gaatgcttta ttgttctttg gatatatatt cagtaatggg
22741 attgctgggt caagtagttg ttctattttt agtttttaaa gaaatctcca aactgtggct
22801 ccaaagttaa gccacagtgg cttaacttac attctcacca acagtgtata gcatttcctt
22861 ttctccacaa ccttaccagc attgttata ttttgacttt ttaataacag ccatttgat
22921 tggtgtgaga tgatatctca ttgtggtttt gatttgcatt tctgtgatga ttagtgatga
22981 gcatttttc ttatgttgt tagctgctta tatgtcttct tttgagaaat atctcttcct
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23101 cttagattct ggaaattaga cctctattgg atgcatagtt tgcaaatatt tctctcattt
23161 ctgtaggttg tctattact ctattgatag ttttctttgc tgtgtagatt atctttagtt
23221 taattaggtc ccaactgcca aattttcttgt tgcactgctt ttgagaactt aattataaat
23281 tctttgctaa ggaggaagtc aggaaaggta ttcctaact tttattctag gaattttata
23341 gttgacatc taacatctaa gtctttaatc catcttgagc tagttttttgc atgtgatgaa
23401 aggtagaggt tctgttttc tgcattgta taatcagtta cccagtatc attcattgaa
23461 taggagtta tttcctgtat taatccattt gcattgctag aaaggagtac ctgaagctgg
23521 gtaatttatg aaaaaatgag gcttatttgg ctcatagttc ttagtctgt acatgaagca
23581 tagtgctga ttcggttag ggcttagga agttacatt catggaagaa ggtgaaggca
23641 agcagcatg ttacatagtg ggagaggaa caagagagaa agaggttcca ggcttctttt
23701 atacaacag atcttgcatg aattaataga gcagcaactc atgtatacc aagggaatca
23761 ctaaggaat gatccaacac ctccactag gccctacctt caacatagag gatcacattt
23821 gaacatgtga tttggaggag acacacatca aaaccaaata cgttccccat tgcttattt
23881 tgtctgactct gttgaagatc agaaggttgt agaggtatgg agttactttg agtttgtat
23941 tctgttccat tggctatgt gttctgtttttc ataccactgc aatgctgttt tggttactgt
24001 agccttgtaa tatagtttga atttgggtaa tgtgatacct ccagcttttt tttcccttttt
24061 attgcttag gactgtttg ttactcaggc tcttctttgg ttccatatga actttagaag
24121 agtttttttc taactgtgaa aaaatgacat ttgtagtttg acaggaatag cattacatct
24181 atagactggg ccatcaatc attttaatat tattgattct ttcaatccat gagtatgtaa
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FIGURE 1 (continued)

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24241 tgtttttcca tttgtttggg ccacatatga tttcttgcag cagggttttg taactttcct
24301 tgtagagatg ttttacctcc ttggttagat ctatcttagt tatatgtgtc taggtatttt
24361 attttcatgt gtggctactg taaatgatat cgtgttcttg atttggctgt cagcttggac
24421 attattggta tatagaaatg ctactgaatt atgactaggc tcagtggctc atgcctgtag
24481 tcccagcact ttgggaggcc aaggcgggca gatcacttga ggtcaggagt tcgagaccag
24541 cctggccaac agggtgaaac catgttgcta ctgaaaatac aaaaattagc caggtgtggt
24601 ggtgcgtgcc tgtaatccta gccacctggg aggctgagcc aggagaatca ctggaaccct
24661 gaaaggcaga gcctgcagtg agctgagatc atgccactgc actccagcct gggtgacaga
24721 gcaagacaaa aaaaaaaaaa aaaagctac tgaattttgt acattgattt tgtaccctaa
24781 aactttactg aagtcattta tcagctctgg gaggcctttg atggagtctt tagggttttc
24841 tagataaaga attatgtcat cagtaaagag agataagttg ttttcttatc ttcctcttta
24901 gttgcctttt atttctttcc cttgcctgat tgctctggat agagctttta ttactatgtt
24961 gattgggagt ggtgagagtg ggcatctttg tcttgttcca tattttaagg ggaatatttc
25021 tagcttttac ccattcagta tgatgttggc tgtagatttg tggatttgtt cctttgatga
25081 ctggtttgtt gagggttttt atcatgaaga tatgttgaat tttattgaaa gctttttctg
25141 catctattag gattatcatc agttttgcc tttaatgctg tttatgaggc gaatcatact
25201 tactgatttg catttgttga accaaccttc atttcaggaa tgaagtctac ttgatcatga
25261 ttaattgaca tttcaatatg ctactaaatt tggtttgcta atatgttgtt gaggattttg
25321 gcatctatgc tcatcagagg tattggcctg aagttttctg tatagtgtct gccaggtttt
25381 gatgtcagaa tgatgctggc ttcataaaat gacttaggga ggagtccctc ctcttcgatt
25441 tattgcaata gttttactag cattagtatt agctcttctt tatacatctg acagaattcn
25501 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
25561 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc cataagtttt ataaccatta
25621 ccttattcga tatatagctt gtttgccatt tgacactaac aaaaataata ttgtaagggt
25681 attattgaaa ataagttttg gtttccattt ttacctattt ttataggaaa agttcatgaa
25741 acaaaatatt taaataaaaa gatatgtact ctttctgtct cttgttacat attgtggagt
25801 tgatttccag aaggttttat ggattttcac ttccacgagc agtgtacaaa agggtatgga
25861 aatcttggca agcattactt ttcaaaatac tttcttcaag gttttagggg aaaatagtgt
25921 ctgattctct ttatcctcct tttttatttc ttaaatttat agtgatttat ttacttgcta
25981 aaatattttt tgccacttct gtttcttatg tgagttgcat attcgtatca gtggtgtgta
26041 cattctagtg gagttagaaa ggacggtaaa caaatgtatt gggaaggtat aaatcttaaa
26101 aagaaaaata aaatgagatt agagtgatta ggttgaagaa taccattata agtactgttt
26161 tcaggagatg cttttttatct ttggttacat ttgagcatag aagggtggag gctttctgag
26221 agaggaggat tacaggcagc ggggaccaca gtataaacgc tcttagctga ggatgtgttt
26281 gatgtgtctg cagagcagcc aggagaacag tgtgcctgca ttaggacaa ggaggggata
26341 gtgatggaag agatcagatt gacagtcaag accagatctc ttaggtactt ggagtgtgga
26401 ctagggtaag gagtttggat tttattgaga acaagaggta aacccttaaa aaaatttgga
26461 gagaaacgca agatatgtgt gtgaattaga ataggttatt ttatctggac ttttggttgg
26521 tgaatgtagt acaggctgat ttcagcccca ttttcccctt tagcctctct aaagggtggc
26581 tgtattatat agtacagttg ctaaactata tacattgtgg ccctgaattg atagagttac
26641 agctatatca ttccggccag tagaaagaag ggattgacaa tggccagggt agatacaggg
26701 aaattcttta agagatgatt tcagtagtct agggagaaga ggatggtgcc taggtttaga
26761 ctactcacag aaaagatggt taggagaggc tggatcctgt aatgctgata gaatttgtgg
26821 tcaacttaga tggggaatgt gagagaaaaa caggagttaa ggatgactcc aaatttatt
26881 cttaaaattt tgcatcttag aagtttaat ttgtttaagt cttaacacca attagtata
26941 tactctacat gctttttttt tatattctca ctcatgttta catagattgt aaacatgagt
27001 tactctggtg actgcttac tcttattta atacttacta ttaaaactta tagtttttt
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27121 cctaaaaata ttttacaag ggcggtgga gtgtttaact ctaggaagta gggcaaaata
27181 gctgctgtga tgcactgagc agtgagtttg ggaaaaagca ttctgcaaaa tgtcagcgga
27241 tagcattgaa aaatagcaga gctgcttgaa gcagattttt cagtttacag aaattgtgtt
27301 ataaccaaag catggaagat gggaacaaat ggcaggggaa atctggctac atgactgtaa
27361 gatcagtgct gctgcagaga gtccctgagt cagcttggt ttgtaccaag gcatcaagtg
27421 tatttggttt gacaagagat tggaatgtgc tgacaatgcc ccttttcttat aatcttaggc
27481 agtatattac aaagctttat tttgaatgta gctttttatcg tttgttatttt attgtactta
27541 aattatgttt aaaggcaagc actgggatat ttgtgtgctt aaactttgtt taagggcaag
27601 aactggagat ttgtgtgcct ggaacagacc ctactctgcc tccactttct atttaggtca
27661 gtgggcaatt aatcttgtaa catgaaaggt ttcaggtttg tagtgttttt attgaccaag
```

FIGURE 1 (continued)

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27721 ctttacatga aagtacatct accatgtagc tggaaaaaga tccctgataa cttttctatg
27781 taccacccтт agttтттgga aataggtaaa ggaagaaaaa gtgacagact gagaatgaat
27841 aggcagagag atggaaaaaa cagtagagag aagcaccagg aggggtagat tcatacagct
27901 ggatggtgaa ttттgcactg atttgttттg ctaacttaaa acttgttgga ttacataaat
27961 ttctattaaa aaagaaaaca ctgcattcgt attaatttag gcattatttt tcttgatgac
28021 aaaaatctga ataaaaaaac tagttccttt taataaagga cattaaatat cagtagataa
28081 tagctttact tgtagtttat ttagagatac tttcaaggga taaatacttt tctcatcttt
28141 ttgaaagtta taatttggca attgttттct gacaggaaca tттggttaca tacagtagat
28201 gtatggttag atacagtaaa tgatgttттт gccaattттc taactctctg ggaacagaag
28261 tggagaatgt tgaatcccat tcccctgtta cacacatттc ttcacctggt gaactcattt
28321 gtcctcagtt ttagggcgaa ttcctcacaa ттттттсat aaacttccaa tttaaaataa
28381 ctttctctgt taaaaccttt catcctcttc gtgttgttga acttattctt agtтттactg
28441 cagtttccat tttaaattgt ttgtggaatt attтgccact gtctccctc acaactgtat
28501 tgtaagaccc atgaagacag ggattgattt ttccaaaaat gtttattgag tgacttccтт
28561 ccaaaaatat ttattgagtg cctactgtgt atcaactagg atttgggat ctattaggtt
28621 tacattctct tcaattccag catttacттc gttaccatt atgtctccaa catgtagcac
28681 agtgcctgat aaacagtgaa tgtcagtatc tgttgaaaga ataaagatga aagcccттtg
28741 aggagtattt gcagggctca aatgtggtgt ggagtcaggg gttaaatctg tagttgagga
28801 acatgaactt ctcctgaggt tggggattтc тттccccatc tcaatctgaa atttccaact
28861 gtccctgttc taactтттct ttcaataaaa acgagaactt ccttagtgtt agatccattt
28921 tgtaaactgc gtctggggaa tgtatgcagt ттaagtaaac tgcaagataa atcacagaag
28981 agttaatgca gtagtgatca тттattagc ggtccacatt aatagaatac agcaatttaa
29041 attgtaatgt agttaacттt gtcctттттт ggggttgtaa ттaatctaaa catccagcta
29101 ттtatgttac ttataattaa aggtaggaaa gccattagat aactcatttg ttcatactgt
29161 gtattcaatt atctgatttа ттattтatct agtттatgta ctgagagtac ataataaaac
29221 ttaataaaac ctcataataa aacttattag ggggcagtaa atgaagaaac atgttgtgtt
29281 cttgacagag caggtacatg gacactcaga cattaaaatg gagaccagga aattaaagat
29341 cagaagcagc atgtggaaaa cattctgtct ggggccactt attataggaa taaacagctc
29401 tgtagattta gatgttctgg ggaagtaccc tatcattgga aaatatggta agtgatcatg
29461 agtcctcaag aagaggttat atttgtttgg tattctttgc ttaattatca catttgacag
29521 aatgatttgc attattaaca ttattaatag aaagtgttta gagaaagttg aaaggcacca
29581 tggtттaatt gactggaatg ctttatgact aaaaatgcag agagtagttt gtgaattттc
29641 aggaactgat cctattcттt attaaagcgt attgtgtatt tctgaaaaag cacacatagt
29701 atagtттaat tcagactctc tgagctgtat atacttctaa ttatatacta gтттatgaaa
29761 ттactgagtt ccttctactt tgagaaattc tggaattaag aatgagtgag gattgttggg
29821 gagaggtcgt tgaagctgac aaaacactga atgcttaccc tcgтттctag gtcacagtga
29881 aatcagactt cactggggag cagтттctg atgaggaatg tcatgaatcc cттcagaaat
29941 gggaatgtct ctgtgtттgt ctctgtaatg tagaggcatc ttgagaggct ggactтттga
30001 tgaattgtca taagaactga ccccatatag cattggctca gctттctaac aagggatттт
30061 tacттcctgc tacataaact ccccaaatga aacattgact cтттcagaca taacctgacc
30121 cagtgcactg ggtcatactg gagtatcctg accctgtatg gatттatact gctgagaaaa
30131 ттaaattgc gttcaaaaga gagctattтт atgaacatct accttaaata tgcatcттgc
30241 ттatgactaa ttaatgcctt gctatgтттт tgtggagcag tcttgaagaa ccaggtggcg
30301 aaccattcat ттctaatgtg ттgtagctag gaattagттg aatттgactg tatacgaggt
30361 gaggaaagag aaagggagga aggcagggaa agaccagcтт ttccacagtg acatтcттca
30421 acagtatттт ttgccagcag ctgatatттc ttccctagтg ctgттcaat gтgtataттt
30481 taagccttgt aataaatттc ттgctaatga cttaaagtga tggcatттgt acaggaatat
30541 gtaactgттg gcttgatттt atтттacaaa ctggтттgaa aaagagagaa aatccтттgt
30601 atattcatтt ctgcttaagt ccagtggaaa tctcagtaaa atattggatg тgcaggaaag
30661 cттacacttt aggatgagc tgcattatta tтттттcct gcatcataat aaaaccттta
30721 atccaacatt taggtтgтт gatagttggc gtttataacg ctaccggggt gagcatттat
30781 caagataaat tgtggagatt tgtgttcctt caggataggg aatgtggcat ттagaatтct
30841 tattgттag aaagtcacag aagatacттt aaacatттct taaaatттta ттatgtaac
30901 agactcatct тттcaggтta gatттatgag ataatттgga gtccttcact acтттaaaca
30961 ттттcттaaa atтттattga tgcaggagac tcatcтттta agattagtct tatgaaataa
31021 cттggaatcc ттcттcactg ctcтттттca caaaccctgt ttaatctgtc catcaatgтt
31081 gтттagtctg ccттagaaac ataттcaaat ggatgacттt ttacctcтт тactaтgтt
31141 ccттgтctgt atcaccatgg тctctaacct agaacaттgt tcagaacact тттaactga
```

<center>FIGURE 1 (continued)</center>

```
31201  tttcctaatt  ttgtccttgg  cctctcctgt  gatagcaacc  agggtaatcc  tgttaaactt
31261  gagtcagatt  atgagatgca  gtattgcata  gcagttaaga  gcacagcctc  tggagctagt
31321  ctttctcggt  tcaaatatga  gctctgccac  ttaccatata  tttaaagttg  ggcaacacag
31381  ttaaatgtaa  tattggaaga  gcagtaatac  ttggattaaa  tgaattaata  gtatctatat
31441  ggtagacatt  gttattattg  tattgttatt  actgttattt  tagtagctat  tatatcatct
31501  ctttactcag  aatcctctac  tagcttgcta  ttacatttga  agtaaaaacc  agaatcttta
31561  caatgacctc  ctaggccctg  cacagtctat  tcattctgac  ttctgaactc  atctcatttt
31621  cccttgcata  gtctcttctg  gccattctgg  atgcctgctg  tcctcccttt  tcttccactg
31681  ccaatgtatg  aggcctgaac  ccagcccagt  catattctct  gtatttgttg  tttcctttta
31741  ctggaaagat  gtccctcaaa  tatctgcata  gctcacttcc  tttgcttcag  gtcaccctct
31801  cagtgaaact  tggttatgtc  atccaagata  gcaacccatt  caagactccc  tgcgacactc
31861  tatgacactt  cgttctttat  ctttagccct  gaaagttaaa  tgcaaatttt  tgtttgtttt
31921  ttttttttggt  tccctgtatt  ggaatataaa  ctccatgatg  gcagaggctt  attttttggtc
31981  tcttgtcctg  tcttgaatgc  tgagtctcta  gaacagtggc  acatagtagg  cacacagtaa
32041  cattgaagga  attagtgaac  ttatggcacc  tggttaattc  tctgctcaca  acctcatgtg
32101  gtatcatctt  tcccatgtat  acccagtatt  ctcttagctg  tgcccctgt  ggtctgtgat
32161  ctgctccatc  ttggcttcca  gctgtccact  cttaattcta  aatggtaatt  tgcaattaac
32221  catttcctgt  cttttgaata  atgaaaacac  gaatccctct  ccatttctga  ctagcaaaat
32281  attctcatgt  ctttgagacc  cacttaactg  tttcttcccc  ctgcggtatt  acctcaactt
32341  gtcttgattt  cttcctcctg  tgatttatcg  ttgcccttca  ttgtttaacc  tcctcatagg
32401  gctgttatct  agaatcagaa  ataccaattt  ttttattatt  tggcatacct  aggatggtat
32461  ttttttttagt  gtgatccctg  ttgagcgtca  tccgcatctc  ttcatgatga  tacctggtac
32521  tcggaattta  ttccccagga  gctccccata  caaactgaat  cagaaactct  tggggtgtga
32581  cccaacaatc  tcttgtttat  acaagtattt  gggtagttgt  tctagtccat  gctaatgctt
32641  gaaaagcact  gagcaaggac  attggcatga  tggtccagtt  tccagactgg  gaatatctga
32701  gattaagggt  ccagttgggg  ccagtgctgt  ggctcatgtc  tgtaatccca  gcacttgggg
32761  agcccaaggc  aggcagatca  cttgagacca  ggagttatag  accagcctga  ccaacatagt
32821  aaaaccctat  gtctaccaga  aatacaaatt  tattagcggg  gtttggtggt  gagcacctgt
32881  agtcccagct  actcaggagg  ctgaggtggg  agtatcacac  ttaaacagtg  ggagctaatt
32941  gaatcagagg  tcattacgtc  ttaggagagt  ttttgtgaat  gtggcagata  gagcttctta
33001  ctgcatcaaa  atggtgctat  aaagccaatt  atttagaagc  aacattatgg  agctgtattc
33061  ctgttatttt  cagaattttt  atgctttgat  atatggaaaa  tacctttttag  tcaattccat
33121  ctttttttaaa  aaatcgcagg  tcatcttgga  atcatagttg  aaataaatag  tatttctcat
33181  taaagcatta  acatgtcagt  tcatcataag  tttggtaatt  cagaatggaa  ccaaagaact
33241  tcattgtttg  gaatacaggt  tggatatccc  ttatgcaaaa  tgcttgggac  cagaagtgtt
33301  tcagatttcc  agtttttaca  gattttggaa  tacaatcatc  tgttgcataa  cgacaaagat
33361  accttctgag  aattgagtca  ttaggcaatt  tcgtcattgt  agaaacatca  tagagtgtac
33421  ctatgtaaac  ctagatggtg  tagcttacca  cacctagaca  atatagttta  cactactgtt
33481  tctacactac  aaacctgtaa  ggaatgttac  tgtaccgaat  atttaggtag  ttgtcacaca
33541  atggtatttg  tgtatctaaa  tatatctaaa  cataaaaaag  gcaacccatt  gtgctatgac
33601  tgctactata  tcactagatg  acaggaattt  ttcagctcca  ttgtaatatt  atgggaccag
33661  tgttgtatat  gtggctcatc  attgatggga  acatcatgtg  gcacattact  gtatttatat
33721  acacataatg  agatatcttg  gggatgggac  ccaagtctca  acatgaaatt  cgtgtatgtt
33781  tcatatatac  cttttacata  taatgcaata  ttatataatg  ttttaaataa  ttttatgcaa
33841  gaagtaaagt  tttcgctgtc  cccctcacat  taggtcaggt  gtagaatttt  acacttgtgg
33901  tctttcagca  ctcaaaaagt  tttagtttga  attttggatt  tctgggctag  gaatgctcaa
33961  cctgtaatat  gaattggtaa  agtctcatca  ggttcagtat  ttcatttatt  cagcattatg
34021  catatgacaa  gatatcagtg  taaaaaatga  aactataaaa  gtactggaag  aaaatatgaa
34081  taattattt  ataattgcaa  catgtagaag  gcatttctga  agtgtgagaa  acaaaaccca
34141  gaagatgtaa  gaattaatgg  ccgattttaa  aaagtcatag  aaaaataaaa  attctattg
34201  gaaaaaaaat  catacaatca  aaacaaagtt  caaagataaa  tggtaagtgg  ggagaaaatg
34261  ttcaacccac  aaggtttact  tggaatttat  tgtagagata  caatcttaca  tgtaagaaat
34321  tacttgtgac  catctttatc  aattgcagtt  ttttgatatt  taatttttt  tttggacag
34381  cagtgcaatg  gaaacagctt  aaatttttac  cagcatgctg  gttaaataat  ggttcattca
34441  tacaacagaa  tattatatgt  ctgtactcta  tttggaaata  tctcgaagaa  atacaaaaat
34501  ttaaaaaga  tgccgagtgg  aatagagagt  atgcacgtgt  atgagaagta  tccacttgtg
34561  catgcattaa  aatatctctt  aaagcataca  tcagaaccag  ttttattgat  attttctgaa
34621  gggaagtcag  ttaaatatct  ggtaaagatt  atcacttttt  acgtcaccta  gtccaaaatt
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FIGURE 1 (continued)

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34681 taaattacaa ataaggaaag atcagtcaca tatataaata tattttttag atctccaact
34741 tggcacggtg aatgctagaa tgtttcttgt attttctggg atatactcca taaaaagata
34801 cctccttaca taaagatgag aatttatgac agttttcaac acagagtgaa taataaactt
34861 ttttggagtc ttgtggtaat tccatagaag atgatatttg tagttgtctt catcaaatca
34921 tcatttaatt ttatgtactg aaaatacata atatacagat tcaattttct agtaatatct
34981 tatatagcaa cttcaactcg tagaacaatg tggagaactt cagcaacttg ttaggggagg
35041 attctgagct gccaaaactg atgctataaa actttcaaga cagtatgagg atgggctgct
35101 cctcaattta aatgtattca ttttatgcaa ggtagatgca atggaagata taaaatcaac
35161 tataaaaatc atgttattat gtgttcatgg caatgtggag taaagtaagc aaatatttca
35221 ctataattga agatggtaaa tgaaagttat gacttctgtc cattttttgtt cctgtttcag
35281 tcacaccacg ctttatcagg tctgctttta attttgtgta actcatccat ttattttcat
35341 tgctttaatt tcggcagact tgtacataaa ggctgtttat tttccgttat gaagaataaa
35401 atgttatctt gattcaggca cctcacccct acaactttct cttagagcat ggcttgccta
35461 agcataagcc taactcaagc tttctgctcc agggcaactc tccttattca tatgcgaatt
35521 ggcaggaatg tattacctca gcctgtgctg gtttgtcctg gttcctgact ttactattga
35581 tccccttttc atataagcat tgaaaatatt tttagtgtct gtgtaaaata tgaaataaac
35641 agtaacagat catatgtgtt tcagcaagct acataacctt ggtatcagat ttctggcagg
35701 cagttcatat tctctaataa agcatttggc tagcagatgg gttaccccat cccactcaaa
35761 gaaggtttct cattcatttg tggaggttgc tgaaaccttt gaacccttgg aattcagcag
35821 attaaagtcc gctctatttg tgaaggggca gatccatttt cctttgacat taaaattata
35881 tctagtatat acatttttat aacatttgaa gggatcaaat gtgttttcca agtcataaat
35941 tctggaaaat ggtcctatac tctttgtttt aatttttata aagataggaa acatactgct
36001 tttccaagat aatcttttca ttttggatat tgtttattgt actttgtatt gatatgtaat
36061 ccgcactcct cattaattcc cttctctatt tccaccccag ccagttcttt ccactaaaat
36121 catatagaga aaatctagta ttgtttctc ttcaaatgta atgagttggt ggggagatag
36181 tgaatctttc ttcttttttt catgtagaaa aattctcaat ccctcaacta ttcagtaatg
36241 atgtgattgc tagacccctg aacctactgg ttaaactcct tatttgtcaa aattctcctt
36301 aatttagcat cccaagctct tataattttc cacagatggg ctatacagat tacagtgtaa
36361 tcatcacttc tcttgttaag atagcttttg ttttttgtttg tttggtttgg tcagccatct
36421 cacatttttgg ctcatttttg agtttgtatt caagtaaggc ccataacaca cttttttccc
36481 ccaacttttt aaagtcaagt tttactctga ttgaacctcc tccccgccct gtgtgatcat
36541 tctttgctgt ttgaatttta cttttccctt ctgaactctg gaaagaattt gctgaaactc
36601 agtgtatagt ccttggctgc aatccagccc tttcatttca nnnnnnnnnn nnnnnnnnnn
36661 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
36721 nnnnnnnnnn nnnnnnnnnn cttagcctcc ttttctgaga agcactttat aaaatcattt
36781 gacctcttct gttgtgtttc cgacttatca tgctgccttc cagcttgtat ctgtaatttt
36841 ccatactaca aagaaatttg ctggccctga cacatcgatt ttcctctgta atcttgtatt
36901 gttcattgtg aattaataga ttgtcatgca cctaagtgag caagtctacc ctctgagata
36961 tagataaagt cttaccatac tgaccaatga aaagtgaggt tgcaaagaat acaatgctta
37021 atattcacta acctctagag aaggacttct caagctttaa atgtatacag atatcaccat
37081 acgctgctac tgctgctgct gctccgtaag ccacgcaagt cttgagaaac tcttgacaaa
37141 gtgcaatctt cagttgagta gcatcatctg agaacttgtt agaaatgcag aagcttagcc
37201 cttactccag atcaactgat cagtacagct gtaagtgaga agcactgctc taagatcagt
37261 aatttttaaa ggaccagcag tattggcatc atctggaac ttgttagaaa tgtaaattct
37321 caaaccccac tccaggtcta ttgaatcaga atccctggaa ggttctgatt caatagaatc
37381 agtagtctgt gttgtcacag ccctacaaat gatgccgatg caggctaagt caaggaactg
37441 ctggtctaga gtaatggctc tcaaactttg ttgcacaata gaatcagcag gacagttttt
37501 aaaatttctg atagccatat catgtcttac aaataactca aaatgcctga gggtagaaga
37561 cagccatcag cactttaaa agatccagg tgttttaaa gtgcagtaa gttttggaat
37621 taatacttaa attcaccaat gcaaatggca acttggcag ctgttctctg ttatcccat
37681 gtcagaatca cccagctgat gccatgatcc catttcaga gatgctgact gaataattct
37741 gggtatcaaa attatttta cccttaatgt ttttttattt tacaaaaaga aaaactcact
37801 attttttata cactgttcta tgggtctta taaatgcatt gagtcatgtt tccacttcca
37861 gagtcatgat gaagagaagt tccatcattc acaaaacttt ctcttcacag aacctttta
37921 ggttaacccc tctcccacca tcagcccatg caaccctga ttttctttt tatatgtgat
37981 ttagaataat ttatattgat ttattgtcta attaacagat tattttctca ttgcatcag
38041 gtccactgaa gagccaaagg cattctttat ctctattact gttcatatc tagtgcttcc
38101 actttgctta actctatac ttcccatctc tctgctgaaa ggtcacatct catcttacat
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FIGURE 1 (continued)

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38161  gtcatccaaa  tttaatatat  tacacattgt  tattttagat  tctgtgtcag  atagtttcag
38221  tgtctgtgac  atacctaaca  atcactgggt  tgactgtttt  attttcttggc agtgtgttta
38281  ttcttcttgc  attctgtatt  gtgaaagtaa  gtaattctaa  atttaagctg  cttggaaatt
38341  taaaatattc  tgagcctaaa  aggtgccagg  gaagacctct  tttcattatt  gatcttcatt
38401  atagatcttc  attataactt  tctccttacc  tttcttacat  aaaggcttca  tgattatcac
38461  attgcctaca  acggaatgtt  aaatacactc  atttaaattg  gaaaggaaat  gaaaataagc
38521  tgtaaagaaa  acaagctgta  gagaaaagaa  aacaagctct  aattaattaa  attgtaactc
38581  attgaccagc  cttggataga  atttcttttt  ttctgcctat  agaagcaaga  ccttaacttt
38641  taatttcaga  gcactaacct  atttctctga  agtccatgtt  tccaggatgg  ccataatcag
38701  cttttttacct gaataaactc  tttaaaactg  gattctgatc  cttttgatta  ttttagttag
38761  tcagtatgca  tctctttttt  atttaaaatg  gccagttgtg  tattatagtg  taagtacagt
38821  agacccctga  acaacatggg  tttgaacatc  atgggtccac  ttatactcag  attttcctct
38881  acctctgcta  ccccaagaca  acaaaaccaa  tccctcctct  tcctcttcct  cctcagtttc
38941  ttcaacatga  agacgacaaa  gatgaagacc  tttatgatga  tccattacca  cttaataaat
39001  agtaaatata  ttttctcttc  tttatgattt  tcttaataac  attgtctttt  ctctagcata
39061  ctttattata  cgaatacact  atataataca  tataacatat  atgtattagt  ttatgttatc
39121  agttaagtct  ttctgacaac  agtgggctat  tagtaattta  gttttggtga  agtcaatgtt
39181  caagggtcaa  ttgtacaggc  tcaggtaaat  aggttttaca  cctggaaatg  agcactcttt
39241  tccttctgtt  aggcctttag  tgtggggatt  gtgttaatct  agtcagaggt  tagtctgagt
39301  ttaaggtttg  tagctatggt  tacaaccctc  agtgaacctg  tgatattgtg  atttataata
39361  caaatatat  attcgctttt  tgttcttgtt  tcctgttaca  catctcctga  agcacttgga
39421  atcttcaaag  tgatgactgg  tggcttgtgg  gttcctggat  agccccaaga  tgggggaaac
39481  tggttgctgt  gagaatgaac  cctgtgatta  caaagttgta  attttcaacc  ccatcccctg
39541  atctccaggg  agaggagagg  aactaaaggt  tgagtaaatc  atcaatagtc  agtgattcca
39601  tcaatcatgt  ctacacaaaa  aagcctccat  aaaaaaacaa  aaggacaggg  ttgagagagc
39661  ttctaggttg  ctgaacacat  ggaggttctg  gaaggatggt  gcagccagag  aagacgtgga
39721  agctccacac  ccgtcttctc  ataccttaca  ctctgcatct  cttccatttg  gctgtgcatc
39781  tttatccttt  gtaaaatgct  ttacaataaa  tgagcaaaca  tacgtgtttc  cttgagtttt
39841  ataagccact  ctagcaaatt  aacctgagga  gggggatgca  gtagtctctg  atttatggcc
39901  agttagttag  aagaacagat  cacaacctgg  gacttgtgac  tggcatctaa  agtgggtgca
39961  gtcttgcaag  actgagctct  gtgagatctg  acattatcca  ggtagatcat  gtcacaattg
40021  agttaatacc  aaggtggtat  ctgccagaga  attgctgggt  ttatggggaa  aaatttccac
40081  acatttggag  tcaaaagcgt  tctggaagta  tcgagaatga  tgagtggtgt  gtgaaaatgg
40141  aaaaaaaaca  ctgtttttatt  ttcctattct  cacagaacca  tatactttaa  atttctctag
40201  cagtaacgta  agagtaagag  ctggtttcct  agagggtttt  ctcagatctt  cttcaccatc
40261  agttttaagt  cttctctttta tattatgcct  tagagtggct  gtgttttcaa  attcttgtct
40321  cactctcagc  agtattgcag  tcttacatgt  tacatgacct  tcttaatctg  attgtgcagg
40381  acatgtagag  agtgtttgt  tttgttctaa  ttaagaacaa  aataaaatgt  cttagaacgg
40441  caccgtgtcc  ctgggttttg  ggggtgtggt  cttctcaatg  ctcccaccct  actcccaact
40501  gtggtttggg  gccaagtcgg  aattcctgcc  tcctttacca  gtggcagcat  gtttttttct
40561  gttcttcaac  ccccatcttc  aatgggttgt  caccatgctt  ctgagtagat  taaactctta
40621  ttctgtgagg  gacacagggg  gcaggagtcc  aggtgaaatt  ttgcacgatc  acacagtggc
40681  tgttgttccc  ttcctccagg  cttgcactgt  cagagatgct  ttatcagaac  tcttgccagc
40741  ctttatcggt  acctgctggg  atccctggag  aagaatatgc  aagggaataa  gattgttcct
40801  ctccctgtga  cctccagggg  cttcataata  ttttaccaac  ccacatttat  gctgcgccaa
40861  cttgttacct  gttttagctg  aattattctt  tctggtatct  tctcataaca  tctatccaaa
40921  gaaagtagat  gcttgggtcc  gtctatccct  gcagatgcct  gactcttttt  atatttatc
40981  cttattagcc  accctacaag  ctcagctctc  tgatgggttc  aagaaaagcc  atgaactcat
41041  agtttgttca  tttcttttg  ctccagaggg  tgtgtgtgat  aacattcca  gctttctaca
41101  tcccaaagca  gaaaccagaa  gtctggattc  ttaaaagcat  ttcagtccat  tttaatgtgt
41161  atccaatttt  gaaaaccatg  gccttttagg  aataatcttt  gaaggcaacg  atattcctca
41221  agccagaaaa  tgtgtgcctt  gccttttgct  gttcatgtta  tattactcaa  aatataaaca
41281  ggagatccta  cttttagtag  attaattaat  gacactaagt  taatttgctt  ctcagtgttt
41341  tcttcccatt  ttacctgttt  ggttcaggac  cttttatgag  gctattagct  tgattttatc
41401  acattgacat  tcctgtattt  attgccaaac  taagtgtata  ggttctagc  tccaaaacaa
41461  acaaaccaac  acacaaaaga  caaagaaagg  gaaagatgaa  gaaaagataa  taactgaaat
41521  gtactcatac  attttttcaaa  ccagagaatg  atcaaacaaa  aataaattag  tggaaactga
41581  agaacaaat  gagaagggaa  tgagtagcac  atatatttctg  taatcagctt  gtcatatata
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<div align="center">

FIGURE 1 (continued)

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```
41641 catttgaaga aagaatatgt caggtatata ttttttccaag tcaatatacg agacgtaaaa
41701 tgagaaatgg ccaacttcat aaaattacac atttcttttc cattataaga atactggaat
41761 aaaaattaaa agttagaatt accttattta aaacaaaaaa aaaaccagag attcaaaatg
41821 aatgatcact taaaatactc cttatattgt tctacactgt gttttacaaa tagaacttcc
41881 agtgttagtg attcttattt ctttgaaaat tgagacctag gccgagcatg gtggctcatg
41941 cctgtaatcc cagcagtttg ggaggccaag gcaggaagat ggtttgaggt caagagttca
42001 agaccagctt ggccaacatg gcaaaaccct atctctacta aaaaatacaa aaattagctg
42061 ggtatggtgg cacgcacctg taatcccagc tactcgggat gctgaggcag gagaatcgct
42121 tgaacccggg aggcagaggt tgcagtgagc caagataaca ccactgcact ccagcctggg
42181 cgaaagagca agactccgtc tcaacaaaaa aaaaaaaaaa agaaaaagga aagaaaatt
42241 gagacctttt agttaatttc ctatagaaat tatttttgag aaattactaa aatttccctt
42301 attattctcc tttcagtatt tatattagta tattaaaggt actatttctt aatacactaa
42361 cattctcagt tttagaaact tcacttccca gattcttcta tcttcacata tctaatgtga
42421 actcagaaaa ttatctgaca aacatctaac cagtattgta ggagcatcta aagacactaa
42481 agaagaatta caaaacaaaa atcataagga ttttttctgac ttttgattca ttttgcttct
42541 acctctattc ctttttcaata taacacagaa acacacacac acacacacaa atgcacacac
42601 acacacagat ggctacacac atttatttac agataactga tttatatccc tggaagtatt
42661 taaacatgaa atgtaacctc taattttata tacagtacac tttcttcctc ctggatacta
42721 ttctatttca tattccagat acacacctaa tcatggttgt atatggaaaa ttcataacaa
42781 aggggaagta ttaaaaattc tgaaacatgt ttctttaatt ccaatttcaa caaacctcca
42841 ttttcaccta gctgtctagt catatgctta ctatttcaaa attgggcaat tgctataaag
42901 tgtaatctag gctgacttaa taccaggagt cattgatgtt gtgaacacag cttaaaataa
42961 cctcccaatt taacaaaaca ctgcttaaat tacatgcgtt aaaagtagta cctttggtag
43021 gctcatgctt taactgatat caacaattgc ccgagaatgt ggaagtcagt gaaccaaaaa
43081 aggagcattg ccaattaatg cttttacaat ctgtgagcaa tttggaaaca ggtctccaaa
43141 tgtagacaag aacactaaaa acattcaaga aactgctgat gaacaaaccc tggggtgtat
43201 agctacagtt gggaatttac catcattgtc tggtcacact aggtcctctc agccacagag
43261 aattgaggga tcatgtgaaa atatatacat tttattttttg ttgattaaaa ttttactagt
43321 ttgtattaag gtggatttat taggtgaaaa taaataaaaa tatatttatc caaaagatgt
43381 atacatgaac acacatagtt ctctttcttt gtgtaagcca gtcagttgca tctggctgac
43441 tgcattctag aaatcagagt gcacccaaaa gttcacaggc ctccacagaa gtaggggtta
43501 aaaaggcaat tcaatctagc ttcaagttgg cagagtcaca tcagtccaaa gttctctcag
43561 tgatccacat aagtgagaga ttgtaataat actgagctat gaacaaaggt aggaagaata
43621 cagagaataa ttttctgtag cccacttata ctggttccag ataaccactg tgcattctt
43681 cctgactgca ttgggagctt gaattcagct atgaaaggaa gaatttagaa catgaaaaat
43741 aacaaatcag gtttgtttat ttgtttctcc cagagagcta gtttattago at...ttttag
43801 aatgtatgtt tacaataaaa aatgacatga atgtcagtca gtaaaacttt taga...at..g
43861 ctgtgcattt gtgttccaat tttggagaag cttatgctat gaaaaactta agc...tta.
43921 tgaagaagaa atgcactaga aggtctattt aaggtgatat ccacagacca aagtt......
43981 ttatttgccc agtataacac agtttctatt gatgaaggcg cctattaaaa tagttatt..
44041 tgctaattaa caggttggca acaattgca ataagaagta gaaaagtacc tgaaatgat.
44101 gtgaaattca gtcccttta attatctttt ttctacatc ctgaagcaca ttttttttt.
44161 taaaataaa tgcgctgctc ttgcctgga agtaccaaac tacaaacctg aaggctatat
44221 aattgtggt tcagatgaga aagtctggaa aagctgcta agtgaacact gtgtattt..
44281 tttgtatgtg atgatagaaa cttcatgtt attctggat ttttactta taggtct...
44341 caatcttgca gtctctattt tttcttgattc ttgtcctgaa ttaacctaa attgatt...
44401 gaaatcttgg aatcttatta tggagttat tgttaatgtt catatctagg tattatt...
44461 gtaacatttg ttagagttac tttgatttca agtttttat taagttatta ttt.t...
44521 tagaaaatga attcagtcat tacaaaaaac ttgctgatat agttcatttt atttt...
44581 aaaatcacta gtgtttaac tactgcagag ctgaagttaa aagtgcattg tattt...
44641 acatcagagt ttcgtttcaa ggactctgga aatttttagt atcagataa tatttta...
44701 tttttaatatt tagaatgcta aaattgatca aaattcaatt agatgctttg agtttagta
44761 ggccgtaaac aaataaaaat catcaaaaac aaaaaaccag aaagctttta gatgttttaa
44821 gtttgtcctt aaggtgtaat tagcaatgtt atttattaaa tattatggca caattttttt
44881 aagcaaatca ttcagaatat tattttacac actctaaatc tttgctacac ctgaagttat
44941 gatatgaaaa caacactaat aacacttatg tatacctatc acatatttta gatacaatact
45001 aaagtgatga attatatttt tgattcctat tattaaacac atatattaaa ctactggata
45061 tgaaataaat tgttaacttt gtaattatat gtgtaaagta tttagttttt ttaattttt
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FIGURE 1 (continued)

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45121 aaaatatata atatttcaag tcaattacta cacttgagca tgctgtatat aacaggagta
45181 gagaaagaca aaggagggct ccatcgtaca cccacaatgt ataacagtgc atctcttact
45241 ccttaaaatc cctatttgtt gatgcccaaa tttggaaaaa agtctatgca aagtttaaaa
45301 aaaattcaat gaactccact agtgaaccaa tatccccact gaaccattct agatgtccac
45361 atgcctagtt gtcgcagaca tacctgagtc cagaaatgct agaagctgca agaattctag
45421 tctgggcatt gataaagaaa agactgcaaa aatatattgt ggattcccta gggcctacct
45481 ttgaatggac ttagccacag acaaagctct aggttcctct tttagctttt ccatattgac
45541 tcctgggtta gggatagtga aaacttacat catagaactt attttagaga agtaaaatta
45601 gcaaaattgg tggagtaaga cctctgaaca ttctctcctt tgtaaaagct ttgagcaact
45661 ggcaaaaaat agctttgtca gaaatctgga aattaaccaa agacttgcag taatctggag
45721 agtatttggt gagaaatatg gtttaatctc aataaaaaga gcaagctttg tgacatttta
45781 acttgcccta ttttcacccc actctccaga tccatggttg cctcaaaaat caatagccca
45841 caattgcaat gaacaccagc agtcacgcag ccctcagagg aggcagaatg ggattggaga
45901 tctgtcaaag cctcattctc aaaggactgt ggtacattgg aagatctgat ttgcaatgtt
45961 gggtttattt gatctgtcta tgaactcagt cacaaaaaga caaaaatagc acaattccaa
46021 atctatagta gtcaaaccat actactatga atctatctaa agtagcgaaa ttcatagaaa
46081 gtagtcaaat tcgtagaaac aaggtatata atagtgtatc aagggctggt ggcatgagga
46141 aaagggaagt tgtttaattg gtatagaatt tcagattttc aagatgacaa gttctgaaga
46201 cttgttttat aacaatgtga atatccttaa cactattgaa atatatactt aaaatggtta
46261 acatggtaaa ttttatgtaa tgtgtttttt cccacaataa gaaaaaaata ggaaaaacta
46321 ataccagctg gcttttttt ttttgcaaaa attaacaagg tgatccttaa gaaaatgtga
46381 aataaaaaga gactccaaaa aatcaaaaca atattgataa agaacaaaga gaacatacat
46441 atcctgattt caaaacttac tatgagactt ttgtagtaaa gatagtgtga tactggcata
46501 aagacagcca tacacatcaa tcaaatagaa ataagggtcc agaaatgaac ccctattttt
46561 attggcagct gacttcaaca atagtgctga gacaattcaa tgtagaagga agagtctttt
46621 caataactac tactgagaca acgggatatt cacatgccaa agaatgaagt tgtatatcaa
46681 tctcatccct gtataaaaat taacccaaaa tgaattaatg aataaaaaaa cctaaaacta
46741 taaaaatctt aaaagaaaac agatatgtaa atctttgtga ccttggatta gctaatagta
46801 ttttagatat gacacttaaa acacagaaac aaaagaaaaa aagagacaaa ttggacttct
46861 tcaaaactaa aaacctttaa gcataaaagg acactattga gaaattgaaa aaccaatcca
46921 cagaatgggg aaaaacattt gcaaatatat atatatatat ttttcatgtt attcatgttt
46981 tttcctctcc ccaagtgaga aatattaatt ccttcattaa aatttttgat cctttttatc
47041 gactatatgt caatataaat aatatgtcaa taaaaatggt tctatcaaga acaattaatt
47101 ctgtaatccc agcactttgg gaggccgagg caggtggatc acgaggtcag gagatcgaga
47161 cctgaccgac atggtgaaac cacatctcta ctaaaaatac aaaaattagc cgagcatggt
47221 ggcatgcacc tgtagtccca gctactcagg acctaaggca ggagaatcgc ttgaacctgg
47281 gaggcggaag ttgcagtgag ccgagattgt gccctgcac tccagcctag gtgacagagt
47341 aagactgtct caaaaaaaaa aaaaattaat tcacagaaga agggaagaag ttcatatatt
47401 ttatatacta tgaaattcac ccattaaag catgcaatgc aatattttta gtacattac
47461 agaattgtgg aaccataaca aaactctaat tttagaaagt ttttattttt cctaaaagaa
47521 acacttgtat ttattatcag ttattcctca actgcccatc caatttaccc aaccctagta
47581 atctactttc tgtcttttt cctgaatata tatatgtata tatacttgac aagagtttag
47641 tatagagaac atataaataa caaatcaata aaaaaattaa tccaatttta aaatgagtaa
47701 atgatttgaa cagacatttc tacaaagaaa tatacaaagg gacaataagc acatgaaata
47761 cactcaacat cattagtcat taggaaatg caaattcact nnnnnnnnnn nnnnnnnnnn
47821 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
47881 nnnnnnnnnn nnnnnnnng atacctatac ttccatgttt actgcaacac tacttataat
47941 agtaaatata tggaacaaat ctaagtatgt atcaacagat gaatggataa aggaaatact
48001 gagtacacac ataatggaat attattcacc cataaaaaag aaggaaatcc tgtcattgc
48061 aacaataaaa tggttacaac tggaggttac taggtaatg atataagcca tgcacaaaaa
48121 gacagtatca gatggtctca ctcatatatg gatatcttca gttttccttt tgttctgaga
48181 ataacctaaa accttgccaa atatctaaat ttttttatct aaacttaaata taataaatct
48241 tacectacag attataaaga gccagtttct aattttaaac gttcatccaa aagtaagttt
48301 agaatacata ttccatggaa ggaatgcgac aaaattgttt ctaaattaat tcaggctttt
48361 tagcatgtct aaatggaata cgggataatt atggggtatt ggaaacattc taaaattgca
48421 taatggggat gactgcacga ctctgtaaat ttaattaaat tcattgaatt ttacacttac
48481 aaatgtttat ggcatgttat ataaattatg ccctaacaaa gctgtgtttc ttaaaaggct
48541 catctaaacc actaagtata tatatctgtg tatattttca tatgatagtg acctatgctt
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FIGURE 1 (continued)

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48601 ccataaaaca gttgagttgt ccttaaaaat accacataaa aaataagaat gttttgcttt
48661 attaaaatga acatatcctg aattctggac ctttaccaga gctaacctta attaagagtt
48721 taggaattgt gttacagaat gggcatcata tttcaaacca tttacaaaca gtttaattca
48781 ttctcccagg ccctagatta caattttcaa ctagattcat tactctgtat aaacttttta
48841 aaaagggtgt tgtttttaaa aaataagaag ggtaaaaaaa atttcttatg tggcttcaat
48901 tgctcatccc tctttaacct cctggttact ttctcatgac ccctaggttt tttccacagg
48961 atagtcatgg taggtaatga tgcagaaaat gttaatgact cttcttagac aacaacttgg
49021 ctgagtgggc acccatgttt tcagttagct ggctgttctc acaggagatg tcagaaattt
49081 tatctgtttg tttccattat atatcccaaa cactaacagt gcctggaaga cactgtgtct
49141 tccattaaaa ttttattatc ttttctgtca agctgggtcc taaagtatca tctaaatcaa
49201 caaactcaac ctcaagcagg ctttaggtat atcacagtgt ccttcttctc atgagaaaaa
49261 aataggtccc tcactatacc agttgtccac aaggacaaat attagatagg gggccggagg
49321 tggggatgg tgatgcgaga gtgatggtag agaaaagttc ttcctaaaac ccaaaaggaa
49381 gcttgaggat gtaaaatcat ttctgactca catgtagtaa ctcttacaag gagaatctgc
49441 ctcagagcca aagtgaaaat gtacatgtgg caagtttaag ctgactaata tggttgtttg
49501 aaatccatgg taattttaaa ccaaaacata cccagtattt attctacaga gctattttaa
49561 tgaacttggt attctttttc taagtgtaaa aaaaataaca aatgctgtag aaaaattccc
49621 agtacactat ggctaacact tgccttacca tacttcatct tgcaaaatag gtaaccacaa
49681 gcagaactta atattttgtg taaaatataa caggaaaatt ttacagatgc aagtgttatg
49741 tatcttttga aaatttttaa gtgtgtacgg cactgggact tcattatatt aacatctatt
49801 ttcatttcat aatttataac tttcttattt atactaatgc ataaaaatat tactcttatt
49861 ttcatctgca aataatttgt gtctttatat tttcaaattg agaaaaaata tgtaaaaaga
49921 ccttcctaag ttagagggga aaattcatgg ggacttaaaa tgagcaatca ataacaaaaa
49981 caaataagac acagaaaata aaataaagga agtagtaact aataactcat gacaatttga
50041 tgttattata aaattataag aagatggcaa aaaagagtgg atattttaat taggagagtg
50101 aaatattaca caaaatacat ttacattaaa aaggttcttc tttcttagta acacaggctt
50161 tctaatgtct cacttgtatt tataactttg cgtggtcttt tttcttctgt ttaaccagaa
50221 tccattaagt tacccgtctc aatagtaaag ctcactatga tctttattct taactcaaga
50281 ctaaagtatg aatttcacaa aaacgttagc tcttgccatg ttgtctcatt agtgtttatg
50341 gtaattcatc atctttaatt acatcatctc agaccatagt tgatataatt tgaatctacg
50401 tccccaccca catctcatgt tgaaacgtaa ccctcagtgc tggaggtggg gttgggtggg
50461 aggtgattgg atcatgaggg cagtttctaa tggtttagca ccatcaccct agtgatgttc
50521 tcattataga gttctcatga gatctgattg tttaaaagca tgtagcacat cccctcactt
50581 cctcctgctc caatcatgtg agaccttcat tcctcctttg ccttctgcca tgatcctaag
50641 tttcctgagg cctctccaga agccaagcag ctggccagca tcatgtttcc tgtacagcct
50701 gtgaaattgt gagccaacta aatctctttt ctttataaat tatgcagtct caggaatttg
50761 tagcagcaca agaactgatt aatacaatag ttttataact agtaatatct acttttgcct
50821 cttttttttt attatacttt aagttttagg gtacatgtgc acaacgtgca ggttagttac
50881 atatgtatac atgtgccatg ttggtgtgct gcaccagta acttgtcatt taacattagg
50941 tatatctcct aatgctatcc ctccccatt ccccactcc acaacaggcc ccggtgtgtg
51001 atgttcccct tcctgtgtcc atgtgatctc attgttcaat tcccacctat gagtgagaat
51061 atggtgtt tggttttttg tccttgcgat agtttgctga gaatgatggt ttccagcttc
51121 atccatgtcc ctacaaagga catgaactca tcattttta tggctgcata gtattccatg
51131 gtgtatgt gccacatttt cttaatccag tctatcattg ttggacatct gggttggttc
51241 caagtctttg ctatcgtgaa tagtgccgcg ataaacatac ctgtgcatgt gtctttatag
51301 cagcatgatt tataatcctt tgggtatata cccagtaatg ggatggctgg gtcaaatggt
51361 atttctagtt ctagatccct gaggaatcac cacactgact cccacaatgg ttgaactagt
51421 ttacagtccc accaacagtg taaaagtgtt cctattttct cacatcctct ccagcaactg
51481 ttgttcctg atttttaat gatcgccatt ctaactgctg tgagatggta tctcattgtg
51541 gtttgattt gcattctct gatggccagt gatgatgagc attttttcat gtgtattttg
51601 gctgcataaa tgtcttcttt tgagaagtgt ctgttcacat ccttcacaca cttttgatg
51661 gccctatttg tttttttctt gtaaatttgt ttgagttcat tgtagattct ggatattagc
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51781 tggctagcca tatgtagaaa gctgaaactt gatccttcc ttcacctta cacaaaaatt
51841 aattcaagat ggattaaaga cttaaatgtt agactgaaa ccataaaagc cctagaagaa
51901 aacctaggca ataccattca ggacataggc atggcaagg acttcatgtc taaaacacca
51961 aaagtaatgg caacaaaagc caaaattgac aaatggatc taattaagct aaagagcttc
52021 tgcacagcaa aagaaactac catcagagcg aagggcaac ttacagaata gtaatatcta
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FIGURE 1 (continued)

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52081 cttttttaaaa caataattcc ttgtcaataa tttttttttg aaatggagtc ttgctctgtt
52141 gccaggatgg agtagagtgg cgcaatctcg gctcactgca accttgctcc tgggttcaag
52201 caattctctg cctcagcctc ccaagtagct gtgattacag gcacctgcca ccacgcccgg
52261 ctaattttt gtattttag tagagacagg gtttcaccat cttggccagg ctggtcttga
52321 actcctgacc ttgtgatcca gctgcctagg cctcccaaag tgctaggatt acaggcgtga
52381 gccaccgtgc ccaaccatat tttaatacat catctacaaa tataaatctc agctctttaa
52441 aaagtaattg aatatagatt ttaaaatcca cagggtgttt ctcctaccat tcagtaaaca
52501 tgacaaccag atcatcttga tcagcatagt gttccatgac ttctttcatt aatctcactt
52561 tctggccccc tccaatacta ttaattccat caccacctct ccattcttct ccttgaccaa
52621 ggacctataa acaaaatcaa catttcattc ctgagcaaaa ctcaaattat gaaagtacta
52681 tgaaaaactt aaagacatca tcaacttgaa cagtactgta ccgtaaccac tcttctaatg
52741 tttcatggaa tcatgattct agaaaaaaaa atctagatgc ctaaatcaga tcataattct
52801 tcaatgttat ccatccccaa aatgcccttc tcattttta ccatctcaaa agttgtgagt
52861 ctaatccaag gaagtagacc cagaaagtat ttctcacatt acatcatttt attcctattt
52921 gtttagacca taaagaagaa aaatgaataa atttcccata tcactttttt ttcaatctgg
52981 caggaaatct ttatgatcaa cattgaagct cagtgactcc ttgatgaggg gcctttaagc
53041 aattttccta ctgaaccaaa atgggttttt cagggaattg cagagggcat caagaaaaaa
53101 atcaccttct ttaccttata catcttaaac ttatgtaatt gtctaaagct taataaggat
53161 ttttcaatgc aagatattgc ctaagtatga ttaatttaaa tttgatttta attaccctgt
53221 acccttttctc ttcactattt gcttgagcct cagcagctgc tccctgaatt ggaaatgcat
53281 gatgacacac tgactctaag ggaacagaaa gtgcaataca cgtcccttcc cccacacaac
53341 acacaccttt tctcttcatt tcatcaaaac aaagtctgaa gttgccatta taatgatcta
53401 ctaagagatc tgggaaatta atggagaatg aaattaaaaa taaacacaca agaaaaggat
53461 aaaataaaat ttaataataa ataccactag ttctaacttt acttaatact gagccggaga
53521 taaatcttgc tggcaaagcc tgtggggctc ccagcctcaa atgtcctgtt ataacttatc
53581 acttcctatg tggcaggttg agggaaaaac acaacccaag aaaactcaag ctgttttgga
53641 tctggattca aactaggcta atctagaagc attaatagta cttgctctaa aaattggcct
53701 cctctggccc tgagatttgt tccacaaccc atctggaatc cctaatccta atgcaacatt
53761 ggacccaacg acatctgaga gtctactctg tgcaatacac catgttaagc accaccctct
53821 atgttctttc cactacacta gtggttgtca aatttcagtg tgcatctgaa tctcatggaa
53881 gccttgttca aacacagact tcagggtatc actcccagga tttgtaattc agtcggtctg
53941 aggggggagcc tgattatttt ttctttctta tcagtagcca ggcaatgcag atgttggtgg
54001 tctggggtcc acactttggg aaccactgca ttacatgagg agagagcaaa aggatcataa
54061 actccagtaa gttaagtggg gatggggtcc aagatctgat attatacttt atatagttat
54121 ttgccttggg acaagttttc ctcatccaga aataaagtag tatctacctt acatggttca
54181 tatagtgact taacagcata tcatatataa agttccttac aaggtgcctt gcacataaga
54241 aacattctac tctctctcca ttctgaaccc taacgattcc ccaactagat ttcagcatta
54301 ttttatccta attttatttc cacagtgtct cctatcagtg catactgcta cattttccat
54361 ctatcatagt aacatatttc taacatgttt ttcatttatc ctatattaaa catctagttg
54421 ttaccactac atctcttttt cagcaaagtt tagctgttta ttagctgttc tatattaaca
54481 cttagctgtt ctatatttac atctatactt agtattccag tggttattta ataaaaacta
54541 cctttttaat atactacata ctcaaatgga tcagtttttc tccaaaaagt aatctttctt
54601 cttttttaaa aaaaaagttt tttgcttttt gtgttcctac ctaggtatct ccttgttttc
54661 ctcttatttg tagaaaagac ttggctgaca gatccttctt tctattaaaa aaaacaagta
54721 agtaaataaa atggcaggcc tctccatagct gagtttaata gttctatcaa ttttcttaag
54781 ttcctctga tcacttgtca atgagatgtt cacctggaga taagtttttct aaaatgcttt
54841 ggttaaaaat acattaacaa tcctcccaaa tacctctaaa tgaaaacaaa caaacacatt
54901 aaaaaagcaa aaacaaaagc aattctcaat aatagacaga aaaggcaccc tcttcacatt
54961 tgtttctaat tccctgcaaa caaagaatca tcctacgata gcaaaaccca ttacagaaaa
55021 aattatgcag tcagtgaaaa aaatccctgc caaatcttat ttacattgta tttgtacatg
55081 acctgccaga aagaaattat atatatatat gcaaatacat attaacttct tcttgctgct
55141 ttatagagta tatttataca aagcattggc aaaaattcag aaattattgt ttgagtggca
55201 cagcattatt ttatcttaat tattacaggt gcataatagt tgcatattta tgggtctatcc
55261 gtgatattt gatacaggca tataatgtgt aatgatcaaa tcagaatact ttgggctatcc
55321 cctcacctca agcatttacc accatttctt tgtgttagga aatattaata aagccaaaaa
55381 ctacatgaac taacagtaat tatgtaacca aatgctatct tccttgtgag gattacagat
55441 tgtactgctg ttatgaaaaa catactttag gcacacatta taggatcttc ataggttaaa
55501 ggatatacca taccttcaca gtataattga aatatttggt tgactgcata aatcgatgga
```

FIGURE 1 (continued)

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55561 atccatcact ttcttttgtt gctacagtta tgactaataa tttatctgca aagacaaaag
55621 gaaacaaaag aaggtttacc aagatatcaa atgctcacat tttacaactc actacagtaa
55681 ttgagacctc actaaacccg tgggaatatt ctggtttact tatctacaca agactaaaca
55741 aagagctgtc gaaaaaatag atgactcaaa ttggttgtat tactgccaaa tgatgaacct
55801 tcaaatgaca attatttcaa cgcaaaaaag tatattgatg attaagaaaa atcatgccat
55861 caataaagta tttcaatatt gagaaaaact tccataaaat gaactttata atccatgatt
55921 aagattctct gacattatct aatcaacaaa cttcaacatc atcgataaat cattcctgat
55981 ttatgacatc accagtgagg agatcagcaa attacattca tcaaaataat gacatacaca
56041 aaaaaaacag atacaatcat taaatctgat tctaattttc taaaataaat tgtgacaact
56101 gggagcaaat atttaaaaca aaatcttaat ttttttctcc tatccgggat tgctttttca
56161 tgaaaattct tacaagcgac aacattattt attgtgtttt ggtttctctt taaagaataa
56221 atggaatcaa aataaccact gccctagtaa atatacaact attagctacc attttataat
56281 gaaatattac tttcaatcca acataacact tcttttagt aaaattagat agatttaagg
56341 aattgtctca aaacacctac ataagctact acagataatg attattttta ataggaaaag
56401 gcatgttgga aaaatgcaca aaagaaacaa gtgcatcaac aaatgccaaa agggctggaa
56461 catttttttt taactgaaga tttagaagga cctacacact aagaaagcaa aactaacatc
56521 ttttcaatat tctctgagta acatcatttg tttctcactt gccctctatt tataagaaaa
56581 gaattcaggt tttgagtatc ccctaagcaa caatcaccaa acatggcaat aatgcattat
56641 aggaatcagt taaaaattat agcagatgaa ccaatgtatc tatctgtcaa attttgaaag
56701 taactacaat aaaatataag taagtacaat atacaaagaa atactaaatt caaacattca
56761 atagtcaacc aaaaaaaata atttccatga agataaacat caacattctt agattttttt
56821 ctaagaaaaa ggtatttctt ggccaggcac ggtaggtcat gcctgtaatc tcagcacttt
56881 gggaggccga ggtgagcata tcacttgaga gcagcagttt gagaccagcc tggtcaacat
56941 ggtgaaacct catctctact gaaaatacaa aaattagtcg ggtatggtgg cacacacttg
57001 taatcccagc tacttaagag gctgagatag gagaatcgct tgaactcggg gggcggagat
57061 ggtagtgagc caagatcaca cggctgcact ccagcctagg tgatgaggcc ctagtaaatg
57121 tattttaaga atactttta aaattaacta tttaaaaaag ttttcattta taaagtttca
57181 aacagagctt aactgattat gaaaatttaa cattattcag agtaaatttc aaaataggga
57241 ataccacatt ttattttata agaacaaaga gcttttaaa gtctatctgt aataaaatta
57301 ctctatttaa agttacattt cttaaatttg tctatataaa tcataagaat taactacaag
57361 tttcagtttt tactggatgg attttcacac ttacaattcc agtataaagt taacagcaag
57421 gatttcatca tccttaatag gaaaagtaaa gttggccaga cccttgagta gacaaaaatg
57481 ttaccaaatc caatgactca gaaggcaaag cttaatcatg tgtagtctga ccatgtccag
57541 caatcctatg ccaaataaga actcctactg tttcagtact attgctcttt ataaataacc
57601 tcaaccaaat cacaaataca taattttgtt aaagaaaggt ctggttagta atattacaca
57661 tgaacagctg tttcctctaa gttgctattc agtatcatga ctatgataag aaaaaaattt
57721 tagttggaga aaaaaaatag tgttgacatg tatcacccac atgcttttt ttaaccaatt
57781 caagaattca accatctcac catttatgaa gtattactgt tagaaaacgt aacctaaact
57841 ggatacgtac ttttcagatt tcactaccat ttatgctaca aatttaccag aaataaagag
57901 acaaagatat ggtgacagga aagagatgtc agcaataaaa ttcagaacat gagaaatttt
57961 ataggacaaa tgatttatgt aatcgatggc aaaagacaga aaagggaggg gaaatatata
58021 gaatattaac ataagagaca tttcaaacaa atgttagtca cggacctgag ttgggacctg
58081 attgtaaaaa gctataaaaa agcatttgtg agaaaattag agaaatttga acactaatta
58141 ggtatttggt gatgttgaga aattagttaa tttttagca tgctaatttc atttactttt
58201 ttttaaaaaa gagtccttat aatttagaga cacatactga agtaataccc tatcaaatga
58261 tatcatgcct gcaatctgtt ttaaagttaa ttggggtaga tagattaaaa caagactggt
58321 catatgtgat aaatactgaa actgcatttt ttgttatgtt taaaaatccc tataatta
58381 atttttccat ctattcattc acttattcag tcaacacata tttttccaagt cccttgtttt
58441 gttactcatt gttgcataca aacacaaaat tcagtgttaa aaaacataaa actttttttt
58501 cgtatggttc agcaatatga gctcagctga atagtttttt ttattattta cttaaatttt
58561 attttagatt cagaggatac aggagcgtgt ttgttacata agtatattgc atattggttg
58621 ggatttggct tctagtatat ccattccca catagtgaac actgtaccca acaggtaact
58681 tttcaaccct tttcaaccct ctcccaacct cctgctttt ggagtccca gtgtctattt
58741 tttccatctt tatgtccatg tgtacccatt gtttagctcc cacttataag cgagaacacg
58801 tggcattcgg ttttccaagt tagctcacat aggataatgg cctccagctc cattcatcct
58861 gctgcaaagg acaggatttc attttttttt aatagctgtg tcatatccca tcgtatatat
58921 atatatcaca ttttttttat ccagtcaacc actgatggac tttaggttg gttccatgac
58981 tttgttgttg tgaatagttg ttgaataaac ttatgagtat aggtttttt tttatgtaat
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FIGURE 1 (continued)

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59041 gacttctttc cctttgagta gatacccagt actgcgatgg ctgaagaata cttctcaaac
59101 gaagaaatac gagtggccaa gaaatatatg aacaaatcct caacattact aatcatcaga
59161 aaagtgaaaa tcaaaaccac attgagataa ccatttcaca ccaatcagaa tggcttattg
59221 gtaacaggtc aaaaaacaac agatgttggc atggatgcaa agaaaaggaa cacttacaca
59281 ttgcttgtgg gaatgtaaat tagttcaacc tccatggaaa atagtatgga aagttatcaa
59341 ataactaaaa atatagaatt cctataaaga cagagtacaa ctttatgtaa aatctctaaa
59401 cttccaatca aaagaaagat agaaaattat gcaatgtaaa tcttttagca gactgacaca
59461 tctaaggata aggaaagata aaatgtacag agttctttaa ccaaacagta ttataattta
59521 aataactata attaatacct tttccaatcc accctccaca agccaaatga atgatacagt
59581 gagatgacta aggaatggtg cttcaataac aggcacctgc caaccactaa taccaccaat
59641 ctataacagc aaaagctatc tcattttctt cgtttcagca agatacctgg caccatgagg
59701 ttaaaaaaac aagcaaatgg aagctcatca gtagccaaat gtaacctcta ttgccacctt
59761 tggactctat tagataacag atcaatacag tttccatgaa taagaaacag gtgatgcatc
59821 tatacagtgt ggtagatttg aacaacaact taccaaatga aaatcagtgg cagactatgt
59881 aatcatcttt acataatcct ccaaaatgcc tatcactaca gtaagattta ataaatattt
59941 gttaaatggc tgtatatttt gctctgtctg aaaattcaga tgaatttcat aatttccca
60001 aaaatcaaga agtcaatttg tttagaaagg ccaaaacatg ctatgtcctc aaagctctag
60061 aagaaaaaaa aaatgcattg ttggagtcat tttttctcc aaatagctgt tgatatctga
60121 acacaatta ccaatattca gtggtgacac aattttctta ttcaaaaaca aaccatggtt
60181 ttaaaacaga aagtgttttt gctaatatat cctgtcacca aatgctaaag cagcttctga
60241 agtccatctg aaatcctttt ttttttttt ttttttttt tttttgagac ggagtctcag
60301 tggcactgaa atcaattttc ttaatgaggg catcacagtt aaataacagc actagcccag
60361 ctgccttta tccatatctt ctcaagtaac tttaaacaca gttcttaatt ttaaactggc
60421 aacaataaaa aaaaattatt gtgccacaga agtaactgtg agtacactgt tctcattcta
60481 caactaactg attttatgac cagacatgtc ttttatctgt aaagattact gtttctcaac
60541 tttctactaa agaaaaatgt tttcgtagta aaagcataat agagatgttg agaaacttct
60601 tctgcaaaag gtcaaatagt aaatatttca ggccttatgg gccacataca ctgtctaata
60661 caatttgatt ttttccttat tttttacaa ccttttaaaa atgtaaaaaa catttgtagt
60721 tgtctggctg gctgtgcaaa aacagccaag ggccagaatt ggcctaaggg tcataagttt
60781 gctacttatc catatagttg gccatatgga tctgaaggca aagtaaagct taaatcccag
60841 ctctattatt tcttcttggt tttgacttgg tcagttactt aaactctgcg tctcaactgt
60901 aatatgtctg taatagcatc tacctgacag tatttccatg agagtaaaat gagttagtat
60961 atataaagca gtcgacacaa actcctacat atgtgttagg cagcatctca cacatatat
61021 caaaggatgc atgtgcaaga tagactgtag gtgatgtgca aaactcagcg agttataact
61081 cccatccctt tctctaccag agatgctatc cagattgttt ttaaaaatta tggaaaaata
61141 gtcgtgaagc tgtttattca aacagtttag caagtaactc tagatacgcc ttctcaaatc
61201 tttacattcc tctccatctc ccagcaagct ataataactc taactcaagt tataattajt
61261 actagctcag gtttctgcaa tcgtctctta ggccaactt gtacactcta aacctctgtt
61321 tacaaagcag ctagagtgat catttcaaaa cagttagata tctgacoatg tcacttcatt
61381 ggtaaatacc ctcttaggat agtagagaaa ctccattacc acaatgtggt tctaggttac
61441 ttctctcctc tccaatctca tccactttct ctctccactt tgtttctctct tctccaacta
61501 cattggcctg tatttttatt ttctaataat gcctgcaccc tcccattcaa agagaagagt
61561 ctcttcaaga ccattatcta atattcctcc ctgacatctt gatgtggcca ctgcctaggt
61621 aaacctgaga ttcttacaca tatgctattt ccttagagag accctctctg acctactaga
61681 gtaggcagt accatgttt tcactgcact ttctaccttt tttcaggga acttactata
61741 aattgtaatc acatattaat ttgcataatc tcaaattatg aataatctca aattatgtta
61801 gattaaagtc tctctctcca atgagactgt aagttacaga aaggcagaga acatttttt
61861 gcttacaatt agacctccag ajcttatcac aatattaagc acacagtagg tttttaaaat
61921 actttcaga atgagtggac ctagggtaa gtaatatcat atgtcctgca tgtaggttcg
61981 aatgaaataa ttaacaaaa tccctatgta gttagcataa tcatctcaaa tttacagtta
62041 gttaaatcc agtaaagtaa tcgacttagt caaagtcacc taacaaatta ctagtagggc
62101 cagaagtaga acttcagagt tattcctcaa tgtcatgtgg cctccctgg tgacaacagg
62161 ttaagggctg aagcaatcat tgagtttat tatgttcaga aaagagatag caacttaaga
62221 ccttctatcct tagaaagatc tgcttgtaag gttggtcctt ggcaggcatc tgaaaagttg
62281 gattccatat ggttccaga tggtcttcca atgggaaggg tcccatcat tcctagataa
62341 gatggtcac tgtggctaaa ttatacaaac aatgcggttt atgctgaaca ctgcctttcc
62401 tcctgggtgc ttgaaacttt ggtacagagg ctgcctatgt gaccattcta cagaaaagtt
62461 atgggcactg aatcctcaat gagcttttat ggtaggtaaa cattttcatat atgttgttac
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FIGURE 1 (continued)

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62521 aaccagttag ttgcttggag aattaagcag atcttgtgtg acttcactgg aaaagaactg
62581 ttagaagctt attcctggtt tccctggacc tcacccatgt gttttttctc attgctgatt
62641 ttgctttgta tcctttcaca ataataagtc atagacatga gtacaaccat atgctgaatc
62701 ctgtaggtcc tcctggtgaa tcactgaacc cgcaggtggt cttggggatg tccgacatat
62761 tatcctagct acagtcagaa agtcttatct gaaagaggta ctatggggat agtgcattat
62821 gctgtgttct gtactcagag gcgaagctag agagatataa aaatgactcc aaatggattc
62881 cagaaaataa gtatttggta cataaagtaa tcataccctg ctcttccact gactgaaagt
62941 catttccttt aatgtgaatt atgacctcag ggtcagtcta gcaaagccca cttctttcat
63001 gaaggaggaa accataatct aaagagaaaa caagacttat ccaggatcct gcagttaagt
63061 ggtaaccaat ctaagacaac tcgggattca cagttactaa aaaacttggt tttcctaggt
63121 ttcattgcac acaattttgt tgctttgtta agtactgagt caccaaaaac tatgacgaac
63181 tgaaggcacg aagtctaatt ttattttgtg gaattgttga agagaattaa ttttattttg
63241 cagaactgtt gaaaaaaatt caagacaaaa attcctcaag agtaattcac gtcacaattt
63301 caacaagaaa aaaaaaacct aaaaaggatg tgtcaagaga catccaatga tttcctacca
63361 tttttgtaga aaaagagggg caatggtatg cttaaagaaa aaagtcactt ccaacctcta
63421 atgctacata gagggcatct tcacacacac tagctttcac atggatgcct gggcttccac
63481 agcccactct ggacaatgaa cagacaaacc acaaattaag agaagtgctg aaaagtggag
63541 ggtagtatgc agaatgactc accatcccag tatgcccagg gctgaggaga ttccagaaat
63601 acagggcttt cagttttaaa actggaaaag tcctaggcaa actggaatga gttggtcacc
63661 atagcagtat gtgcagtggg atggagaggg caagtatcgc cagttattta cagaaaggct
63721 gtaagacaaa tggtcctgga taggagtcat gaagttaaaa ataaactctt ctagaaccat
63781 aaggtccaat actaactaga taccaaatgt agaaggatag atcaagactt ccagagataa
63841 tagatatgtg aaagaccaag gtgcaccgag accatcccca tcctttatag atacttcaaa
63901 ccaaaccatg atatatcttt atcattcttt tcaaataaaa attttataca tgccaacatt
63961 aagaactttt ttttttaggt ttcctgatca tccctttgga tactcatttt ttccagtgat
64021 atacccacat gtgtgctttg gtctgttagg taacccaata gtgaatgttt gacaaatttc
64081 aagacagaac tcaaaggaat attatgatca agaatttcta gtagctagta actttcaaaa
64141 tgctatgaaa gcttcaagac attttttaaa acatacagat tatactgcaa aaaaaatcaa
64201 aatttgtata tttatggtca ataaaacttg aataaatatt agacaaagat ttgaatttta
64261 aaataaaagc ctggctggat ccggtagctc atgcctgtaa tcccagcact ttgggaggcc
64321 aaggtgggcg gatcatgagg tcaggagatc gagaccatcc tggctatggt gaaacccggt
64381 ctctactaaa aatacaaaaa aattagccgg gtgtggtggc tggcacctgt agtcccagct
64441 acttgggaag ctgaggcagg agaatggcgt gaacccagga ggcggagctt gcagtgagcg
64501 gagatcacgc cactgcattc cggcctgggc gacagagcaa gattccgtct caaaaaaata
64561 aaaataaaag gctccatttt cctagtatga ggtgtaattt ttaatataaa atattgtggg
64621 ctactctata accatgttat agcaacaact gatcaagaaa attatgagaa aaccttgaaa
64681 taaatacagt gacatttaaa taaatttaca ttctcacaat ctcaaaagta tccatatact
64741 tcagaaagtc attaatacat acatatgaac catataattt ttccaatctg tacaaaaaaa
64801 cactttactt agaactgctt gcaataactc ccttcagtaa atcccacagg ccctcatcac
64861 ccctatacct ctctacttct gcgtctcaac aattgtccat gannnnnnnn nnnnnnnnnn
64921 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
64981 nnnnnnnnnn nnnnnnnnnn nncaaaaaaa tatgcaaatg ttcacaatag cattattcat
65041 aagagctaa aagtggaaac aacccaaatg tccatcaact gatatatgga taaataaact
65101 atggtatatt cgtacaatgg aataatattc agccacagaa agaatgaagt actgaaacat
65161 gctacaatgt gaatgaacgt tgaaaatttc aattaagtga aaggagccta tcatcaaaagt
65221 catgtagtat attagtccat ttatataaaa ttcccagaat agaggaatca ggaaaaaaga
65281 caaaagtag attagtagcg ttgggtaagt tgggtaagga gttgggaat gactgataat
65341 tgatacaagt gcttcttta ggaaaaatga aaatttcta aaattagagt tttgttatgg
65401 ttccacaatc ttgtgaatat actaaaaatc attagttgc atgcttaaa tgggtgaatt
65461 ttatagtata tgaaatatat gaacttattc ccttcttca tgaattaatc atcttttgata
65521 gaaccatttt tactgacata ttgtatatat tgaaatatag tcagtaaaaa tgatcaaaaa
65581 ttttaatgaa gaaactagta tttctcaagt ggggagagga aaaaacatga ataagaaaca
65641 gaaaagaagt tgttagaaag aattgcaaaa cttagcctaa agaagaataa gaatgagaat
65701 ccatagctga ccctaatatt ttggttgaac aagttattcg aggtcagata tgaatctctc
65761 actattttta ggagataaat ttagcttttg taatcccttt tccaaaaatt ggttctgcaa
65821 tttatcaata ttgatctcct ttggcagcct ggagtgaaga acatggaaaa tcaggaaagc
65881 tgtctaatca aataccaaaa tgtactgcaa gactgaaata gttaaaacac tatggttttg
65941 cttaacatgg tgatcaatga aaataataga aagaatggac ctatgcattt atgctattcc
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FIGURE 1 (continued)

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66001 aactcatgat aaaaaattat aagtaaatcg gccgggcgcg gtggctcaca cctgtaatcc
66061 cagcactttg ggaggcgagg cgggcggatc acgaggtcca gcagattgag accatcctgg
66121 ctaacactgt gaaaccccat ctctattaaa aatacgaaaa aaaaaaatgg cccgacgcgg
66181 tggctcacgc ctgtaatccc agcactttgg gaggccgagg cggtgcggat tacgaggtca
66241 ggagatcgta gccatcctga ttaacacggt gaaaccccgt ctctactaaa aatacaaaaa
66301 gaaattagcc gggcgtggtg gcgggcgtct gtagtcccag ctactccgga ggctgggacg
66361 ggagaatggc gtgaacccgg gaggcggagc ttgcaatgag ccgagatcgc gccactgcac
66421 tccagcctgg gcgacaaagc aagactccgt ctcaaaaaaa ataaataaat aaaaataaaa
66481 ataaatttaa aaaataaata attagcagag catggtggcg ggtggagcct atagtcccag
66541 ctactccgaa ggccgaggca ggagaatggc gtgaaccggg aggcggagct tgcagtgagc
66601 caagacagag cgagactcca tctcggaaaa aaaaaagaaa aaaattata agtaaattaa
66661 tcaataaagg ataaactatt atataaagag attaggacaa ttggctcttc attaaaagag
66721 aaagtatgtt tgatttctac cttagagaaa cacaaaagta attctagctg gcttagtaat
66781 aaaaatgttt ttttaaaaaa acttgttaaa tttaaatttg cctatttctg catcactctg
66841 agaagtagct ctgggaagaa ggtaatcaga agatttatga agatttcctc ctactccata
66901 ctttttcata ggccctgaaa cacacatttc tagtgaagac ttacatgaat agatcaaggc
66961 ccttgggttc attcaaaaca attaattcat agaagatttc aaaatttaga agttaagata
67021 cataatatgc tagagtgttt cttacagaac ttaatattaa tattaatata tactaatctg
67081 taatttaaat aatactttag acttttccaa aaaaaatagt ctttgcaagg aatgtaactc
67141 tctcctgagc ttttgcataa gcgtcaatct acatggcttt tttaaaactt ttatgttagg
67201 ttcaggggta catgaggagg tttgttatgt aggtaaattg catatcatga gggtttagta
67261 tacaaattat ttcatcagca aggtaataag cttagtaatc aatagggaac tttatatgat
67321 ttggctctgt gtccccaccc aaatctcacc tctaattgta atccccacca gttaaggcag
67381 ggacctggtg gcaggtgatt ggccctggtg gcagttttcc ccatgctgtt ctcatgatag
67441 ttgtaggggt gtggccttat tctggacata ggaatggaca aagattttat gacgaagaca
67501 tcaaaagcaa ttgctacaaa agcaaaaatt gacaaatggg atttaattac agtaaagagc
67561 ttcgacacag caaaagaaac tatcatcaga gtgaatagac aaccgacaga atgggagaac
67621 aattttgcaa tctatttatc tgacaaaggt ctaatatcca gagtctataa gaaacttaaa
67681 caaatttaca agaaaaaaat cattaaaaag tgggcaaagg acatgaacag acacttccca
67741 aaagacattc atgtggccag caaacacata aagaaaagct caaaatcact gatcattaga
67801 gaaacgcaaa tcaaaaccac aagataccat ctcatgccaa tcagaatggt gattattaaa
67861 aagtcaagaa actgcagata ctggagaggt tgaggataaa aaggaatgct ttgacactgt
67921 tgggagtata aattagttca atcattgtag aagacagtgt ggtgattcct caaagatcta
67981 gaggcagaag taccatttga cctagcaatc tcattactgg gtatataccc aaaggaatgt
68041 gaattattct attataaaaa cacattcact gtagcaatat tcacaatagc aaagacatga
68101 aatcaaccta aatttccatc aatggtagac tggataaaga aaatgtggta catatacatc
68161 atagaatgct attcagccat aaaaaagaat aagatcactt cctgtgcagc aacatggatg
68221 gagctggagg ccatttagca aactatcgca ctaacaaaaa accaaatcac gtatgttctt
68281 acttataagt gggaagtaaa tgatgagaac acatggacat aaagagggga acaacagaca
68341 ctgaggtcta tcagatggtg gaggttggga ggagagagag gatcaggaaa aataactaat
68401 gggtactagg cttaatattt aggtgatgaa ataatctgta caataaactc ccatgatata
68461 cgttaccca tataacatac ctgcacgtgc atccctgaac ttaaaataaa agttaaataa
68521 atttcaaaag ttctgttttt atcgatatat aattcatata ccataaaatt cactatttta
68581 aactgtacaa atctgtgaat tttagtatat ttacaatatt gtgcaaccat caccatcatt
68641 aatttaaaa tgtttccacc agccagtaaa ggaacttcat accagttagt agtcatttaa
68701 ttatctcctc accctgcccc ctagcatgta acaaccacta atcaaatttc tgtctttaca
68761 gattgctta ttctggacat ttcatatgaa tggaataata cattatgtga tatccttgtc
68821 ctggctttt tcaagtagtg taatactttc aggttcaacc atgttttagt atgtgtt tt
68881 atttcattc ttattctgga tcacaactat tttattcat tgtaatgaat acaaatttg
68941 ttcattcatt tatcagttca tggactttg agttattttc acctttggc tgttatgtt
69001 acattacta tgacaattgc atagaagttc ttgttgaat ttatgttttc aattcttgg
69061 atatatgcct aagtgggatt tttctgggtc acatggtaaa tccatgttta acatttgag
69121 gagctggcaa actgtttttc aaagcagctg caccatttta tgttccact agcaatatat
69181 gaggattcca attctccac atcctcacta gcacttttta ttttcctttt tcttttttaat
69241 agatattagt gggtgtaaag tgttataaca tggttttggt ttacattttc ctaatgatta
69301 gtggcactga ccatcataat atgaccttaa cgtattttca atatttatat gatctgtaat
69361 gatattactt tttttatatg tcaaatagat accttgtgtt tttttccac ttggcatta
69421 tgagtcttgc tagagtgtta tcaacttta aatctttca aagaacatac ttttagcttt
```

FIGURE 1 (continued)

```
69481  ctcaattttc  agctacgtat  attatacata  tttgctttaa  cttttcattat  ttactgcatt
69541  atcttatttc  ctttagttca  gtttactgat  tttatagctt  cttgaaatgt  aaacctaggc
69601  catttatttt  taaattttcc  tatattctaa  tacaggcatc  atagctataa  ttttcccca
69661  aagcactgat  tcaactacat  cttctgcccc  aactgatata  ttgtattagc  attcagtcaa
69721  aaatatttt  tatttccatt  ttgatttttg  ttttgaccca  tgggttatct  ggaagttcac
69781  tgcttaatct  aaatgtttag  ctattatcta  gtattttttct  gttgtttatt  tctagtacat
69841  tttcactgta  gtcagaaaac  atactgtata  tgatttaaat  atttggagac  ttattaagac
69901  ttaaagttcc  aagtataaat  aggtctgcaa  aagatctaga  aagagtgaca  cctttccatt
69961  tcaagggttg  gacttttcta  tttttgttgt  tgttgttgtt  gttgttgttc  ttcactgctt
70021  ttgtagcagg  acaagcctca  gacaaaactc  ctcagacacc  gagttaaaga  aggaagggct
70081  ttattcggcc  gggagcttcg  gcaagactca  catctccaac  aactgagctc  cccgagtgag
70141  caattcttgt  ccctttaag  ggctcacaac  tctaaggggg  tctgcgtgag  agggttgtga
70201  tcgattgtgc  aagcaggtgg  tacatgactg  ggggctgcat  tcaccggtaa  ttagaacaga
70261  actgaacagg  acagggattt  tcacagtgct  tttctataca  atgtctgtaa  tctatagata
70321  acataaccaa  ttaggtcagg  ggtcaatctt  taactaccag  gcccagggtg  tggcaccagg
70381  ctgtctgctt  gtggatttca  tttctgcctt  ttagtttta  ctccttcttt  ctttggaggc
70441  agaaattggg  cataagacaa  tatgaggggt  ggactcctcc  cttacttta  tatatatatt
70501  ttaatgaaaa  atattgctta  aaagtataac  cttaaagaaa  actgttcatg  aactctatgt
70561  atgaatatgt  atattaccat  tatataacag  gtataatgtt  tatatcactt  gggaaaaatg
70621  aagttattga  aaagatgaat  gcaggttatg  ctcattcagc  aatgtgataa  gcacatttga
70681  cttttggaaa  gtaagtggaa  attttttccaa  catgatgtag  cactgcttca  gattctgtct
70741  ctgagcttct  tagagttaaa  cactgacagt  gaattggaat  acggatttct  tattgtactt
70801  tgaaattcca  ttattttaaa  attccatttt  taaatggaat  tttagccatt  taaattccat
70861  tatagccatc  tcttcactca  cagaatgcat  cttcaggccc  tctgacttgt  ccgtcttgtc
70921  agcagttatt  ctacttgttg  ataacacacc  acaacttcaa  ataacacaga  gcaataaagg
70981  ggtacaagta  aaagacaaag  tcatccacac  tcactggttt  ttatgtctct  gaacaagtta
71041  accaacactc  taaccttcag  attcctcatt  tggatgacaa  aaatttacat  tgcaaagaca
71101  tcaagtcttc  aaaggaatac  cttaagtaaa  gtatgaaata  gattgtcttt  cacttgagta
71161  gtacttacaa  aacctaaatt  attttctttc  tatccattct  gatatgttta  tatgttaaac
71221  tgagtttatt  tgtagctaaa  gtgtacccaa  atggggcaag  caatatttag  aactaatttg
71281  cacattccag  attaggttag  gtcctgctgc  aataacaaat  gacaccaaaa  tctcaaaggc
71341  ttgagataat  aaaggttatt  tttctctctc  actacatggt  cagcacagat  tggcaagggg
71401  gattttgctt  aatgtatttg  ctcaaatcta  agctgatgga  tatatgcttc  taaatttata
71461  ctggccatag  aaaagaaatg  tggtgaatca  tacgggggtt  ttaaatttct  tctcggaaat
71521  gacacacatc  acttgcgcct  acatttttatt  gctaaagtaa  gtcacatggc  cacatctaat
71581  atcaaagggt  agagacagag  aagtgcactt  ctataatgtg  tccaaaggag  aaggagatta
71641  taggagtata  ajatgtcata  atcactttgg  aaagctgttt  gacaattgca  taaaaagttg
71701  aatacacatc  tacccctttga  cactgtcgtt  acgttccaag  agaattgaaa  atatatatcc
71761  acaaaagtgc  tgttaaagaa  tgttcaacta  gatttattca  taatggccaa  aatcagccta
71821  catatccatc  aacaggaaaa  tagataaaca  tgctaccata  tatttataag  atgaaaacta
71881  ctcacaataa  aaaggaacaa  actactttta  tatccaacaa  tgtggaggac  tatcaaaata
71941  tttgctgga  tgaaagaaat  catgaaacaa  acattctgta  taatccattt  atatgcaggt
72001  ttagaatggg  caaaactaac  acttacacta  atacaaatag  ttctagcatc  aagggtggta
72061  taaattggcc  aggaaggagc  ttgattgata  aaattcctct  gtgtcttgag  tgaatgtata
72121  tatatgtata  tatttgtcaa  aacttactga  accattcagt  caatatttga  gcattttact
72181  ctatagcagt  atcttgatct  tttaaatgaa  aaataacttg  gaggacattt  cagtcatata
72241  attttatag  cactgtattt  gactaacact  attcattaac  cattttcagta  cattcagggt
72301  tcttttcaat  ttttaagagg  aatttttaatt  ttttaaaaaa  ttttgtgtg  tacatggtgt
72361  atatatttat  agaatctgca  aaatgtgcta  aaaaggaatg  agatctagtc  atttgcaata
72421  atatggatgg  aactggagat  cattatgtta  agtgaaatga  gccaggcaca  ggaagttaaa
72481  catcgcatga  cattcatatt  ttaaggtaa  tgtttttactt  tactcaagaa  gcattggaat
72541  acaagtatac  tgtaacaaac  tgaatattat  caaaaatatc  aatgttactt  tgatgccatt
72601  ccaagacagt  cacattttta  tatgccatgt  cttaaagtca  atgagtttta  agactttgga
72661  taagtttggt  gaaattttaa  aaataagaaa  attatattga  aaaagagca  gtgaatcacc
72721  tagatcctga  catctggtgg  gcatttccat  cctgaatttc  accagttaca  tagctatta
72781  actattacc  agtatcactt  aagacaaagc  ttgagcttga  gaggacaggt  ctcggttctt
72841  atctggatac  accatctaac  taactgttga  acaaaatata  aaattacctt  cagccgtttt
72901  cttacttgct  aaacaataat  aacagcatct  agaatagtgc  ctggcacatg  atatgaagct
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FIGURE 1 (continued)

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72961 aataaatgtc agtttcattc ttgcacatgg agaacggtga ataaatgtgt tttattcctc
73021 ctccttcctc tcctcccttt cttcttcctc cctctattcc ttatctcctc tatctccctc
73081 ccttccctat cctcactcta ctcctcttcc tgtctcctct gtctcctcct ttccctcctc
73141 ctctctctcc tctctcccct cctctcttct acctctgttc cttcacctct tcctttctct
73201 ccccgcctcc ttatatttct tttccctctc ctcctccctc tcctcatcta ttttctccat
73261 ctctctcctt ctctttcctc cctctcctcc tttctcttct ctctctcctt cttcaccccc
73321 tccttctcgc tcctccttca cttcctcttt cctccctcac ctcctctctc tttgcttctt
73381 cctctctctc tccatcttct ccttttcctc ttcctcctcc tcctctgcct cttcccctcc
73441 tgttcttctc cctcttatct tgtttccctt tgctcttctc ttgtttctgc tcctggtccc
73501 tctttttctta tttttctggc ccttttaaa tacataccca tgacaagtag tagggagcct
73561 tattcataag actttgcaga ctgtcttttc tgattgtctt taaatctgtt acctatggtg
73621 tttagtatta aaaatagcaa aaaaaagtaa aaataatgaa aaatatattt ctgttacata
73681 aatcaattct aaataaattt taatcattta aatttaaacc cagaaggctt attcagatag
73741 agtttgaata ttttctataa atatgcaaga atctcagata ttaacttctt gactgaggaa
73801 gaaacaagaa tctctggaca gctgcaaaca ctaccatggg gaaaatctat cagctccgac
73861 atattgaatc taatctgaca tacgcacttg ctcttttttt catagcaaat gagaaagtca
73921 ggttcttgag taaatttcca ttacaactat cttctatttt cagtattctt tcaggctgtt
73981 tcatctgaag aaaattacaa ctggatctga agccattcta tgtattttt catgcacctc
74041 cgtttgggat ttttctgatg ttggctcatg aggagagcaa ggttagacat ctaggggagc
74101 aatttcacaa aaagatactg agagacagga ctagctggat ttcctaggcc gactaagaat
74161 ccctaagcct agctgggaag gtgaccgcat ccacctttaa acacggggct tgcaacttag
74221 ctcacaccca accaatcaga gagctcacta aaatgttaat taggcaaaaa caggaggtaa
74281 agaaatagcc aatcatctat tgcctgagag cacagcagga gggacaagga ttgggatata
74341 aacccaggca ttcgagccgg caatggcaac cccctttggg tcccctcccc ttgtatggga
74401 gctctgtttt cactctatta aatcttgcaa ctgcactctt ctggtccatg tttgttacgg
74461 ctggagctga gctttcgctc gccctccacc actgctgttt tgcggccgtg gcagactcgc
74521 cactgacttc cattcttccg catccggcag ggtgtccct gtgctcctga tctagcaagg
74581 cacccactgc cattccggat cgggctaaat taggctcgcc attgttcctg catggctaag
74641 tgcctgggtt cgtcctaatc gagctgaaca ctagtcactg ggttccacgg ttctcttccg
74701 tgacccacgg cttctaatag agctataaca ctcaccccat ggcccaagat tccattcctt
74761 ggaatccgtg aggccaagaa ccccaggtca gagaacacga ggcttgtcac catcttggaa
74821 gcagtccacc gccatcttgg aagctgtgtg agaaaggacc cccggtaatg atgctatgtt
74881 ctcataattc tattaagaca cccatgactt tgaatttcc cattattgga gttcttaact
74941 ttgatcattt gattcaagag ggtacctgcc aggaagtttt actcagtggt tgttcttttg
75001 tccattatca ataagtattt tgtgaggaaa tacttagaga cgtgtaaata ttttgttcct
75061 ctttaaatct gcacccactt ttagcatccc ctgatatttc ttggctgaat ttattattgt
75121 tacaattgct atccaattgt gattttcctg cttctattat tcttccacat ttgttgacat
75181 tatatgaagg aacactatct cttctttgtt tctttcttta tgctagtata gacagatgga
75241 ttattttatt tcattgatta aaatttatta ttatgaatcg ttcatgaaat tgtcccaaat
75301 ttggtcagtg ggaatctctt caagctggct tttgtgtcct tttgacattg agaggaggtg
75361 ccagtgggct tcctgggtct agtaggggct cagaaagctg tgaaactcac tcattcctg
75421 catcaggact taactttggt cctgaatgag taatattgaa gataagtgct taaaatattc
75481 ctaacatcag aatttgtgca tgtgtttct tccgcaagaa agctataaac agggaaaatt
75541 ttgctgcaag cttccctgtg tcctctctcc ctctctccct tcccctcct ctgaaactaa
75601 aaggactgct aaaagcccat ttttctgtga ccagcagacc gtatctacgc tcccaattcc
75661 aattcttgt aaacacaatt tgtaaaatcc tgtgagatcc tgtctccttt gccatgcagc
75721 tgcaaggtca taaagtagat aaaacttgag ttacaattcc ggttttcctc aagatctgag
75781 acgtgttaat tgtcttgtt tccggctctg gtagcatctt cctaccgcac gtattcctg
75841 cctaaataa aaggtgatag aaaaatctaa cactggttac ctgctcagga cccccttcac
75901 tctgtggaag ctttgtactg tcactccgct caataaagcc tacagctgtt ttctcctcgg
75961 tccgatctgt gtctctctct cacgcgggc tgccgccaca ccaaatcttt ggcgtggcta
76021 aggcgagaac ctttggcatt acaacatgac cctatcattc tttgatatct ccatactttc
76081 tgatgcaaaa taatggtcca agctgctttc ccttctccag ttctggaagc agccatttat
76141 ttcctcaagg agccctagtt cctttaacga agaatgttgg agagaaacca gcatctgcat
76201 gttaggcatg ctcattatta tttaagaatt gttattctca gacagtgttg gggaatatgt
76261 attgtaaatg tacacacatt tttaaccaca tttccacatt gaaaactgcc agtttagata
76321 caactaaat ccaataccac aggtttttt gttttcgttt tttttttttt tttttttttt
76381 tgagatggag tcttgctctt ctgcccaggc tggagtgcag tggtgcaatc tcggctcact
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FIGURE 1 (continued)

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76441 gcaaactccg cctcctggat tcaagcaatt cttctgcctc agtctcccga gtagctggaa
76501 ttacaggcgc ccaccactat gcccggctaa tttttgtaat tttagtagag acagggtttc
76561 atcatgttgg ccatgatgaa agtcctgacg tcaggtgatc tgccggcctt ggccccccaa
76621 agtgctggga ttacaggcgt gagccaccac gcttggcctc aagtttcata taatactttc
76681 cctttccata gttgtaagtt ccaccactga gagtgagaat tacagctgac attatcctaa
76741 attaattttt tgtttcaatc ctcccaaatg ctatgaatct accattgtca ccactgtccc
76801 tcttccccaa tgtccctctt ctgacatgcc gaaccattgc aaacaccact gccctcctct
76861 cttagtgctc ttctcaccct gctctgtctc cagctccctg caccaggctg aggccaccag
76921 cacccacagt gcaccctcct cacactgctc cacaccctgc tctgataatt ataactctct
76981 cattcaaaaa taaaaaaaag ccaagggatt gcaaatcact tatattagct caggtcctcc
77041 aagaagcagg tgttgagagt ggataaaata tatatataag gattttattc aaggaaacat
77101 ccatgtgaga caaaataggg aagggaccag acaagcctgg gagaactgtc caagtacaaa
77161 caagtctaac tccaagtgga aaaaagaaga tgagagaggt tgtgtggaag gaaagtttgg
77221 gaaagagttc aggggtcctc aagccaaaac aggctaccag aagtgtctta tgactcccac
77281 aaatctttct acttcagtat ccatccctgc catgctcagt cattggatga acagctcgtg
77341 ggaagcatgg ggtgactgca aaagagtacg aagcagccga ggcctcttag caattacact
77401 ccctgtagtt ggaggagcgt catctacatt cctgtggctg tccaaaacta atattatttt
77461 tccctgatta caggtgttta gtatcataac tcagaataaa gtcagcacca cattaaaata
77521 aaccttctta tgtaaataac acttaagagt ataacaaata agaaatgact tgccaaacca
77581 ctggcccttt attttttatc acaactcaga aacaaagaca gcaccatatt aagttaaacc
77641 cttttcccat aaagaagatt tttatttatc aaattgctag actgccagtc tggtgttaca
77701 agatgctgct gaacatggta aatgagcata gataattttt tttttttagc aagtgtatct
77761 cttatttgtg gcccatagct tttgagaaaa ttgatttttt atttagcatg tttatgtttc
77821 tttatgatgt atccaacttt ctcaaataaa caggtatacc aaacaggcag attgttcaca
77881 ttttgggaaa tgctagataa aagtgtggaa gtcatggcaa tagagagcta ttttacatta
77941 cagagcttta ttgagtagtt gtagacctaa ctcctgccct tagagctaca attgagcatt
78001 ttatactctc ctggatatta cctttgaatt taatcctaac attttagcat caatttgggt
78061 ggaggacata tgtttaagct tcataaactc agcttaaatt tggcgtaatg ctgaaaagcc
78121 ctgtggtccc taaatatgca aaaatgttgt acagtgaata tagcaagaaa ttttagatgt
78181 agatataaaa ctagacacct tcagcaaaca gataaatata tgacaaaata agacacttgt
78241 aatggttttc tgaggaagtt ttgaaatcta attttcacaa atatctctga aatttaggtt
78301 agatctaaag aagtgggaga aatacacagg aggaaagaat tagagaagaa acaaaacatg
78361 atccaagcag tattagtacg ataaaggagt tcaactgttt taaaaacatt tatggtttac
78421 agttatttaa catttgacac ataatgtcaa atgcctacta tgtggcagac actgtcttta
78481 cacgcgctgt tcagaatggc aacctctagt cacatgtatc tatgaaatac ttgaaatatg
78541 actggttcac acgaggatgt acttgaagtg taaaatacac acccaatttc aaagacatag
78601 aatgaaaaaa tcatactaat aatttacact gattatatgt taaaatgata atatttgggg
78661 tataattggg ttaaataaaa tatataatga atactaattt aacctacttc tttgtgcttc
78721 cctaatgtgg atactagata atttgaaata acataaatat aaatttcatt atatttccat
78781 tgggaaaaat tgtgacaaga actaatgcag tagatattca tgattttggt taaatacatc
78841 tatcttttca tcttccttgg tacctggtag gatagcacag cctcactcac tttgaagtga
78901 aacgtggcca ccaggaggag aagtgtcact tccctataaa agggctttaa aagccaatgt
78961 gctatttagt cctagctgct gttaccacag gaacagatgt tgcaaagagg cctccatctt
79021 cctggctgcc aaatgactaa gattagagcc tttccacctg gattatgggt atgtagtttg
79081 aggcagatat aaatttgaat gaaagtctct ccaaaaatgt ccaaaagaaa ataatcagcc
79141 acatacaagc aaaaagtaat tattttaaaa taattgtata ccttgtgcca agatcatggt
79201 ctcccacacc atgctccaat ttcctcttga agaaatgact gattctaggg ctggtgtagg
79261 atgcagatca tcttgtagta tcagaaagta agaaaatgtg cagaaaacaa aacaattgtt
79321 atatgtcaaa aagacnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
79381 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnntgggt
79441 ggtttttata cttagatttg aaaatactga gattctgagt tataagaaat aagactaaaa
79501 tcagtaaaaa gtaaacatat gaaattatgt ttgttactct tagcccttca gttggactta
79561 tcccttagc tttgagtagt cctgcatctc atcaaatctg atttctacct agaaaagtta
79621 gtttcagttt atgcctctgg gaaccaattg gatgatgaaa atggctccac tcaaaggcat
79681 taattagtat aaacacatat agagtgtgga ggccatgaat ggaaattatg ttacaggctt
79741 agtattatat atactttga atccacagcc gttatccact tgatgttagc ccaaaggctg
79801 agaagtaatt ccacagccat cctcatgtac caaattcaaa tttcaatcta ataacctttg
79861 aaaggtgacc cacatatttt ccttcttcat tcaattatct tcttcctctg actatctctt
```

FIGURE 1 (continued)

```
79921  tttctcaaat  gttggtcttt  tttcatattt  ctccatgtcc  tggaaagaaa  tctgaagacg
79981  ggaggtactc  aaggaaatag  ggtgccaata  gctgagtgga  atgggatggg  atgtgaaacc
80041  tacccctacc  tcctaatgta  ttgcagggcc  agttcattga  tggcattaac  tccgctgtgt
80101  actcacacag  ctgcagagtc  attggaatga  tacgtaggct  ctattgctgc  acatattcaa
80161  ttagaatcct  ttattaatgg  accaagaatg  gacaagaaaa  tggggaaatt  actgtgcaaa
80221  ttttttaatc  caccctgtcc  tccttccctt  tcccttttcct  gattagtctc  agaaatgttt
80281  tcattcttta  catttcccct  ctctttaaaa  tcaatatccc  ttactttgtg  tttgattcta
80341  catttatttt  cctttacaat  atcatgcata  aatacacaca  cacactttta  agttgcaact
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81421  ttttttttttt  tttttttttt  tttttttttt  tgagacggag  tctcgctctg  tcacccaggc
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81601  ttttgtatt   tttagtagag  acggggtttc  attgtgttag  ccaggatggt  ctcgatctcc
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81721  tatgccccac  cagacattat  ttaaacttaa  actcactctg  aagcacattt  tgtcatatag
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82141  aaacacataa  ttatatttaa  attatatttta  taatactt⬛c  ttcaatta⬛⬛  ⬛aaaata⬛⬛⬛
82201  ⬛⬛cctt⬛a⬛a  tacaggttaa  aatgacagtg  tgctatat⬛g  g⬛⬛catgat⬛  ⬛c⬛⬛⬛⬛ata⬛
82261  aaacaatc⬛  gacatatgaa  c⬛acttt⬛at  atc⬛tacaa⬛  t⬛⬛g⬛⬛gaaa  c⬛⬛ag⬛⬛⬛⬛⬛
82321  t⬛⬛⬛gttc⬛⬛  aatgttaata  act⬛gcttta  agac⬛gggca  c⬛g⬛ggctca  c⬛c⬛ta⬛aa⬛
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82621  ataaataaa⬛  aagtaactcg  cttaaacat  aacattagt  taactctta  agagtttc⬛ t
82681  gatggcatt⬛  tgg⬛⬛ttaaga  gcttcatgat  ggcatttgg⬛  taaggc⬛a⬛  tt⬛⬛⬛⬛t⬛⬛
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82801  taagcagagg  tattatcagc  aaatcatgca  taaaa⬛tat⬛  agagtactag  tgta⬛t⬛gt⬛
82861  aataattaa  g⬛tcatccaa  catccaacat  aaagadaag⬛  t⬛g⬛cagaca  a⬛aatgtag⬛
82921  ⬛t⬛ctcaaat  gagacagcag  tggtttggct  tcaagtgaca  aggataatt  atatcag⬛tt
82981  acaaattaac  tatcagtatg  acaaacatga  agccagtcag  tatgtgacat  gggatatta⬛
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83281  aatagcactc  a⬛aattgt⬛⬛  ⬛⬛agtat⬛⬛t  taatatgat⬛  atat⬛atatt  tgattttt⬛⬛
83341  ⬛ttctataga  t⬛⬛gt⬛ctg⬛  t⬛tgaagata  gt⬛cacaacg  t⬛⬛gatta⬛⬛  ⬛ttggt⬛⬛⬛
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FIGURE 1 (continued)

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83521  taaaaattta  caaagcctgg  tagatatctg  ggagttatgt  tgagtttaaa  aataaaggaa
83581  attttccatt  cattaagaga  agaataaaag  tgtttctcag  ttttatggtc  gaggctgcca
83641  gatagaaata  agccccaaat  tctgcaagga  atccagctgg  agccccggaa  agagcttgtg
83701  ttaagtgata  gccaagcagt  tggacagagt  aggaataact  ggtgagtctg  aagattctac
83761  ttgtccagct  agattaagca  gaaagaaaat  ggaaggagt   tgggaaatta  attttttaag
83821  ctatttgaga  atttcactgt  actttttgaa  atgaccatat  taagaaaatg  tgttttggca
83881  aacgtggtga  aaaataagta  atccaatagc  agtcattttc  atacaatgtg  tataaaaaga
83941  atatccctta  atcattataa  aataaattgc  aattaagtct  ggggtaagtt  gttttaacct
84001  ctctgagtct  cagtttcctc  atctgaaaaa  cagtattatt  attactattt  tgcaagtttg
84061  agcatatgga  tgagaactaa  cacaggcaaa  gtccctcact  tagcatatct  tgaaagagag
84121  tggtggctct  acaaagggtg  gatgactgaa  aaacaaggca  taattttcag  tttagatttt
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84241  ttattggggt  tcttcttcat  atggcatccc  tggagtcatc  aaagtaaaaa  tgaaagaaat
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84361  gagaccaact  tccaagagca  gaagctttca  ccaagatttt  ctgataaaaa  tccacatcca
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84661  ggtttcaatc  accttgaccc  caaatatata  gtttatgtca  tatctatcct  cttcaagata
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86701  agatgtcctt  cactccac   ataatctgta  tcctaggaa   ttttatttta  tttgtagcca
86761  ttgttagtaa  gagtttattc  atgattggc   tctctgcttg  cctattgttg  gtatatatga
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```

FIGURE 1 (continued)

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87001  tccctgattg  ctctggccag  aacttccaat  attatgttga  ataagagtgg  tgagagagga
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90121  gttcaaaaga  agaaccagtt  ttaaaggagg  ccaggaggcc  agttttttta  agtacatcat
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90241  aagatacatg  gtatagaaat  tctgtcacct  acaaggaaaa  tctggggaag  aaataatttc
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91441  aaacatgaga  gaagaaagtc  atatgccagg  aataaagaag  gatattcaca  ctattaagga
91501  gtcacattat  tttattacac  aatcatgcac  cccttaagga  catttcagtc  aaccaaggat
91561  tgcatataca  tggtggtccc  gtaagattac  aatggagcag  ccagacacgg  tggctgcacc
91621  tgtaatccca  gcactttggg  aggccgaggc  gggcagatca  cgacatcagg  agttcgagac
91681  cagcctggcc  aatatggtga  caccctctc  tacgaaaact  acaaaaatta  gcctggtgtg
91741  gtggcgcgcc  tgtagtccca  gctgctcggg  aggctgaggc  agaagaatcg  cttgaactca
91801  ggaggtggcg  gttgcagtga  gccgagatca  tgccactgca  ctccagcctg  ggcgacacag
91861  tgagactcca  tctgaaaaaa  gaaaaaaaaa  gattacaatg  tagcagaaaa  acttctattg
91921  cctagtgact  tagtagccat  ggtaacaaca  tattgcaaca  cattactcac  atatttgtga
91981  tgatgctggt  ctaaacaaac  ctactacact  gccagtcatt  taaagtataa  cacatacaaa
92041  tgggtacagt  acatgatact  tgatgatgat  aataaatgac  tgttactggc  ttgtgtattt
92101  actatactat  attttatcat  tattttagag  tgtactcctt  ttacttagta  aaagaaatta
92161  actgtaaaac  agcctcaggc  aggtccttca  gaagatattc  cagaagaagt  cattgttatc
92221  atacgagagg  acagacccat  gcatgttatc  gaccctgaag  accttccagt  gggacaagat
92281  gtggaagtgg  aagacagtga  tattcatgat  tatgaccctg  tgtaggccta  aactaatgtg
92341  tgtgttgtg  tcttagttta  gtttttaata  aaaattcaaa  aagtaaaatt  taagttaatt
92401  aattaaaaaa  aacagcttat  agattaagga  tataaagaaa  gaaatgttt  ttgcacagct
92461  gtacaatgtg  tttgagtttt  aagctatgtg  tgattacaaa  agtgtccaaa  gattttaaa
92521  aattaaaagt  ttatgaggta  aaaacgttag  agtaacctaa  gtttaattta  ttattggaga
92581  aaaaacttt  aaatttagtg  tagcctatgt  gcacagtgtt  tacaaagtct  acaacagtgt
92641  acaataatgt  tttggccttc  acattcactt  accactcact  ggctcaccca  aatcaacttc
92701  tagtactata  aacttcattc  atgggaggta  ccctatgcaa  gtgtaccttt  ttatttttt
92761  ataccatatt  tttactgtat  ctcttctatg  tttagatatg  caaatactta  ccactgtaat
92821  acatttcccc  atagtattca  gtacagtaat  atgctgaaca  ggtttgcagc  ctagacgtaa
92881  taggccacac  cacatagtct  gagtgtgtag  taggatatac  catctaggtt  tatgtatgat
92941  gtccatacaa  aaatgagtca  ctcaacaaga  cattctaag  aaggtatcac  tgtcattgag
93001  acacctgact  gtactgtaaa  tatggcttaa  aaggtatttt  gtagtaaaga  gatccttaa
93061  aacaccttca  atcatacaga  ggaaaaggaa  gttttaacaa  agtattgaa  aagtagttat
93121  gtaatcatat  taaaaaaaaa  gtttaagac  agtattgaa  aatagttatg  taaaaaatt
93181  ttgcagcttc  ttcagtgtca  aagctcactt  ataatcaccc  accaccatat  aagtctttt
93241  tataccctaa  aattggcttc  atgaatttct  agagaaatct  tatacaatca  tgattattgt
93301  gtgaatcatt  actaatataa  actataaata  ttgaattat  gttgcttc  ataccaaga
93361  tgtttactat  ttacatacaa  gagggagttg  gaaaatattt  gttaatactg  gaaagaatt
93421  ggtgatccct  ggaagcccag  aggcctagtt  tcctctcggg  ggctgatgtg  attattgtca
93481  tcagcagtct  ccctccaaagg  ctaagaggtt  ttggtaaagg  caataatgag  ctatgcatac
93541  atggaaaatt  ctttcatgtg  cttttcaacca  acagaatta  attaaatatg  gttcatatgt
93601  ttgtatttt  taagccaaat  cttccatagtt  gtataatgtt  actgacagca  tcagcagaca
93661  agacacaaa  gttttgggaa  caggaagtgt  agtaattata  attgaaattg  agaaataaaa
93721  agaaaggtca  aagtaacaag  aaaatggggt  tgaattattt  ttctctacta  gtgttattc
93781  ttgagattc  tgttttcaa  taatcaaatt  cacttctaga  agtattatta  ccatagaaga
```

FIGURE 1 (continued)

```
93841 aataatacat tactgtattt caaaatgcag aatatcttat acctctctag agaagtcctt
93901 ttttttttctt tttttttttt ttttttttga dacaacagtc ctgctctgtt gcccaggctg
93961 tagtgcagtg gcacaatctc agctcaccac aacttctgcc ttccaggttc aagccattct
94021 tctgcctcag cctcccaagt agctgggatt acaggttcgc accaccatgc ctggctaatt
94081 tttgtatttt tagtagagat ggggtttcac catgttggtt aggctggtgt cgaactcctg
94141 acctcaagtg atctgcctgc ctcggcctcc caaattgttg ggattacagg tgtgagccat
94201 cgtgcccggc tagtcctttc cttttgcttg cattcctgta agagagccta agcctcagcc
94261 tgtgtaggag cacagaactt tttaagatga ctcatataca tgaggccctc ccctcagctg
94321 ttccatcatt gagaaacttg tttctccatc ctacattttc tcagcttctg ttattaaccc
94381 tgatcccatg gagatggaga cagcttcatt tcatttcagg ctctaaaagt cttcctgagc
94441 taggggggtct catctaagcc cgtggcagta aataccacat ttacactaac aattcctaca
94501 tctatctctt tttaggtata acctctctgc tgaccttaag cctcacacat ctaactgcct
94561 ctaaggcacc tcaaattcac catacccaga taagcttatc atcttcccct gaacacaaac
94621 atgctttttat cacagtagta gaactactat gcaccagtt tcccaagaca gaaacctagt
94681 aagtgttggc tcatctctct ccctctccat cttctctcta tattcaatca atcatgcatt
94741 tcagttttat tcagcaatct catttgccta aaatttacca gattttcttc atactcaaat
94801 tggaggacac catacgtttc ctggattatt gtcatatctt cttaactgag atagcttcgc
94861 cattttcaac cctacacaat gaatttgttt cttagggaga ctgatcctta gaaaatgtaa
94921 tgctgaccgc actcatctgg taaagoactt caataactcc ccattgctct taaggtgaag
94981 tctaagccct acatggtttt cccagtttaa gtgtttctac tgagccttca gcttcggctt
95041 cccatggact acttcctcat ttcactccat ttgttccctt ctcccaacct taattgtcta
95101 atttattcat cagaactcag cttagatatc acttcccttg aaagctttct tcgacatttc
95161 ctaagtgctt cactggcata aagtattttc cctatcttgg cacttatagc actataatgc
95221 aattacatgt ttctttattc aacaaagatt tattgagtgt ctattatata tgccaagtgt
95281 tgttttagat gctggaagta tggtagcgaa caaaacagac aagttgtcac tctcatgggt
95341 ttatatttca acaaacacta ttgaattaag aaagaaatac atgttggaga gtaagtgtca
95401 tgaagtatgg agaggataat gtgatagagt gtgactgggg caagaagaaa tctttagttc
95461 aaagtgatga gggaaggctt ctctgataag ccaacagggg agctgagaca cgaaagtgag
95521 aaaacaagtc ctgtgagttt ctgaggaaga ggattccaag cagtagaata cacacaaaca
95581 cactaagatg gaaatgatct tggcataatc ccggacatgg aaaagacaag caagagaaag
95641 actgatagaa tgagggcaaa gtggtgaagt gagtggcaca gtggcacaat catgggggac
95701 atggacgctc tgatgtagac ttggggttta attctgcctg gaatagaagc catggagaga
95761 tgtgaataga gctgtgatat gaaccaactt agaaggatca ctctgtctgc tgtgtggata
95821 aaagactata agaaataagg tggagaaaga gaccatttag aagactgtag cagtcaatag
95881 ttctggcaag agatgatagt gcctgggact actgtgcata ttagatactg taggaactag
95941 atgttttggg aacatacttt aaaagtaaag tgcagatgaa ttgaatatag gatatgagag
96001 aaagaaagta gtcaaggatc ataccatata tttttgtctg agcaagtagt aaactacagt
96061 gatcattata gtatcctcct ttatccacag gtgatatgtt ccaagacccc ccagtgaata
96121 tctgaaaatg aatactacca gaatctatac tatgttttct cctgtacata tatacgtatg
96181 ataaagttta atttataaat taggtaaagt aagatattaa taacaataat aataagagaa
96241 caagtataat aatatagtgt aatgaaagtt atattaatgt gctatctcc tgtctctcaa
96301 catatcttat tttgctgtac taacccttat gatgatgatg tgaaatgata caatgcctat
96361 gtatgtgatg agctgaagtg aggtgaatgg caggcatttt gatggagcat taggctgcta
96421 ttgagcttct aataagtcag aaagaagatc atctgcttct ggtgatcttg gatcattcag
96481 ccatgattgg atgcctggag cagacaatgt gatggtagag gattccataa ttgaagtttt
96541 ttgccaaaat gttttggaat aacattataa ccataataaa aatttgttgt ctcttttctt
96601 ttaactcatc aaagtgttgc tgccgaggtt gtaatccttt ggtaatcata atcatatgag
96661 tgacttaat gctgcatttg atccaaggat tatattccat aatttgtcc tttaatgtct
96721 ttgcagctga aaacatgtca gcaaattttc gtaatgtcca cattgctgat tctgcttctg
96781 tttttttatc ttcttcgtat ccctattcct ctgtagatga ttcaacaagt tttttcaatt
96841 tcttattgt taatacttct tgatggcctt caaaatgttc ttccacctga gtaagtatgt
96901 tggcaaatcc ttctcctttg ctgcaggaat tattttccta acttgccat caaccttcag
96961 gaagctttca caatttcact ccatatgttc tttcagcaga cattgcagt tttggtttta
97021 attcaccaat tacaacttga ttaatattat tgtgacagca atagtgagtg atttccagca
97081 ctccataatg tccagattag agtctgcatc aattgctaat tgaattcaat caaatactga
97141 gcaggtttat gtggccttga cagactagat gataacctgg tcaaggggct gaagcaatta
97201 ggttgtattt ggaggtaaaa atgcaacatc aacattttca tttttgtagc aaatattcag
97261 gatggtcag tgcattcctt attattaaaa agactttaaa ttcaaatcct ttatcttca
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FIGURE 1 (continued)

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97321 agtatttttc acttccagga tgaagcattg gtggaaccat tccataaaca atatggctat
97381 cattcatgca ttctgattat gttaccataa catgggcaaa taattttttgg ttttggcatt
97441 ggttttggat ctttgctttg tacactatgc ccggctttat cacatgcctt gcagtattgc
97501 cacacagtac cagagttaat ctgtccttcc atgtttatc acctgatgcc ttttttggac
97561 ttttatgaat gtaggtgcta ttggtcatct tcttccagca gagccaggtt tcatcacaat
97621 tgaagatttg ctttggatgg tatcctttct ccttaatcaa ttcctttaaa tctgctggaa
97681 atgtgcagct tcttcatctg cagatacagc ctcttcagta atttttatat tttcaggttc
97741 aaacctattc ctgaatctgt ataattatct cttacttgta gtaaatggct tggtgtcact
97801 catttcaaag aatcccttgc tgaagtcttt atataggctg aatgggccca agtacaacag
97861 gttgccttca atcagtatat gttttatttt ttgctcatga cttccaccca caatttaagg
97921 ccttttccat cataactaag cacttatcat gcactgtgcc cataaatttt tcagtttgag
97981 tagcaagagc aaaactagca caattttctt ttttctattt cacgatttca tgtatagaaa
98041 atttattatt actgtattag tcagttctca ggctgctgat aaagagatac ccaagactgg
98101 gaagtaaaag aggttttatg gacttacagt tctgcggggc tagggaggcc tcacaatcat
98161 ggcagaaagc aagaaggagc aagtcacatt ttacgtggat ggctgcaggc aaagagagag
98221 cttgtgcagg gaaattccca tttttaaaac catcagatct cttgagactc attcactatc
98281 acaaaaacag tccaagaaag acctgctccc ataattcaat cacctcccac cagattcctc
98341 ccatgacaca tgggaattgt gggagtaaca attcaagatg agatttgggt gggaacacag
98401 ccaaaccata ccattccacc acaggccctc ccaaatctca tgtacccaca cttcgaaaca
98461 aatcatgcct tcctaacagc ctcccaaagt cttaactcat ttcagcatta actcaaaagt
98521 ccacagtcca gcgtctcatc tgagacaagg caagtccctt ccacctatga gccggtaaaa
98581 tcaaaagcaa gttagttaat tcctagttac aatgtgggta caggcactgg gtaaataggg
98641 ccattccaaa tggaagaaat tggccaaagc aaaggggcta caggccccat gcaagccaaa
98701 aatccagtgg gacagtcaaa tattaaagct ccaaaatgat ctcctttgac tccgtgtttc
98761 acgtccaggt cacgctgatg caagaggtga gtgcccatgg tcttgggcag ctctgccct
98821 gtagctttcc aggatacagc ctccctccca gctgctttca cagggtgtgt ggctgtgtgt
98881 ggcttctcca ggcgcatagt gcaagctatc agtggatcta ccattctggg gtctggagga
98941 tagtggccct tctctcacag ctccactagg cagtgcccca ttaggaactc tacgtggagg
99001 ctctaaccac atattttcct tccacactgc cctagcagag gttctccagg agatccctgg
99061 ccctgcagca accttctgtc tttatataaa tgtctttata ttcaggcatt tctatatatt
99121 ctctgaaatc tagacagagg ttcccaaacc tcaattcttg acctctgtcc acccagaggc
99181 tcaaaaccat gtggaagctg ccaaggcttg agactagcag cctctgaagc catggcaaaa
99241 gctctacatc agctcctttc agccacggcc ggagcgactg ggaagcagga cacaaagtcc
99301 ctaggctgca cacagcatgg ggactctggg cctggcccac aaaaccactt tttcttccta
99361 ggcctctggg cttgtgatgg gaggggctgc tgtgaagacc tctgacatac cctggagaca
99421 ttcctccttt tgtctttggg attatcattc atctcctcgt tacttctgca aatttctgca
99481 actggcttga atttctcctc agaaaatgga atttttctttt ctattgcatt atgaggctac
99541 agattttcca aattttttatg ctctgtttcc cttttaaaac tgaatgcctt tactagcacc
99601 caagtaatat tttgaataca ttgctgctta gaaacttctt ccaccagaca ccctaaatca
99661 tttttttcaa gctcaaagtt ccacaaatct ctagggtagg ggcaaaatgc tgccagtctc
99721 tttgctaaaa cataatgaga atcgccattg ttccagttcc aacaagtccc tccattctat
99781 ctgagaccac cttagcctgg actttattgt ccatatcgct atcagcattt tgggcaaagc
99841 cattcaagaa gtctctagga agttccaaac tttcccatat ttttctgtct tcttctgagc
99901 cctccaaact cttccaacct ctgcctgtta cccagttcca aagtcacttc cacatttttct
99961 ggtatcttta cagcaatgcc ccactctact ggtaccaatt tactgtatta gtctgtcctc
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100081 ttccacatgg ctgaggaggc cacacaatct tgggggaaag caaggaggag caagtcatat
100141 cttactggt tggtagcaga caaagagaga gcttgtgcag ggaaactcct gtattttaaaa
100201 ccatcagatc tcatgagact cattcacttt catgagaaca gctcaggaaa gaccgactcc
100261 cataattcaa tcacctccca ccaggttcct cccacaacat gtgagaattg tgggagttac
100321 aattcaagat gagatttggg tggggacaca gccaaaccat gttaattacc ttagatctta
100381 ccaacctcag catacaactt ttttctttttt tttttctttt ttgctttcc ttaattcaag
100441 agacttcatc ttttttactta aaggaagcac aatacagttt ctctttagtg tatccaagtt
100501 gtcagcatca ttactcttgt gctttgaggc cattattaat taaaataagg gctaattgaa
100561 cagaacacag tgatacagtg atactcaaca agctgggcag taagtgacta atagggaggt
100621 ggtgtgcaca gcaagaatat gctgaacaaa gcaatgattc acattccagt taggacagag
100681 tgggatggtg tgagatttta tcacacaatt cagaactgtg tgcaatttaa aacttatgaa
100741 gtgttattat tagcattttc cattaatat ttcagacca cagtttgctg aaggtatctg
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FIGURE 1 (continued)

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100801 aaaccactga aagtgaggct atggataagg gatactactg tattatgaga caaggatgat
100861 tatcaaaagg ccagatttag aagcagaata tcaagaattc aattggggat atgataggtt
100921 tgagatgtcc attgtagatc taagtggaga tgtggagtaa cagttgagta tataaactga
100981 aatttgagct aggtgtaatc tcttgcatta ctccattctc aaatggctat aaagaaatac
101041 ctgagactgg gtagtttata aagaaaagag gtttaattga cttacagttc tgcagattgt
101101 aaaggagaca tggctgggag acctcaggaa acttaacagt tacagcagaa ggagaaggag
101161 aggcaagtat gtcttacaat ggcaaagcag gagagagaac aaagggggaa aggctacaca
101221 cttttaaacc acaagatctt gtgaaaactc actcagtatc ttgagaacga caagaggaaa
101281 atctgccccc atgattcaat cacctcccat gagaccctct cctctaaaac atgggaatga
101341 caatttgaca tgagaattgt gtggggacac agaaccaaac catatcattc caccatggct
101401 cctcccaaat ctcatgtcct tctcacattt caaaacagaa tcatgccttc ccaatagtcc
101461 cccaggtctt aactcatttc agcattaact caaaatccaa gtccaaagtc tcatctgaga
101521 caaagcaagt ctcttctgcc tatgagcctg taaaataaaa aacaagttag ttacttcaaa
101581 gatacaaggg gggtagaggc attgggtaaa tttctcccat tccaaaaggg agaaattggc
101641 caaaacaaag gggttacagg ccccatacaa gtccaaaacc aagcaggaaa ctcattaaat
101701 cttaaagctc caaaataatc tcctttcagt ccatgtctta catccagggc atgcttatgt
101761 aaggggtggg ctcctacggc cttgggcagc tcttccccta tggctcttca gggtacagcc
101821 accacagctg ctttcacagg atggtgttcg gtgcgtatgg cttttccaga cacatagtgc
101881 aagctgttgg ttgaaccatc attcaggaat ctgaaggaca gtggctctct tctcacagct
101941 ctactaggca ctgccccagt ggggagtctg catggaggct ccaacctcac atttcccctc
102001 tgcactgccc tagtagaggt tcttcatgag gtctccaccc ttgcagcaga tttctacctg
102061 gatatgcagg tgtttctgta catcctatga aatctaggca aaggctccca aactccaact
102121 cttgccttct gcacaccaca ggcccaacac catgtggaag ctgccaaggc ttgggacttg
102181 cccctctga agtcatgacc caagctgtac cttggtccct attagccata gctggagttg
102241 gagtggctgg gacacaggt gccatgtccc aaggctgtac agagcaacgg ggccttgggc
102301 ctggccccag aaaatgggat tttctttct accacatggt caggctctgt ttgtgagcac
102361 atataactga atgctttcag catcaaccag gtcaactctt gaatgctttg ctgcttagaa
102421 atgtcttcta ccagataccc taaatcttct ctttaagttc aaagttccat agatccctaa
102481 agcaggggta caatgctgcc agtctctttg ctaaagcata gcaagagtga cctttactca
102541 agttcccaat aagttcccca tctccaccta agaccacctc agcctagact tcactgtcca
102601 tatcactatt agcattatgg tcacagccat tcaacaagtc tccaggaagt tccaaacatt
102661 tcctcatctt cctgtcattt tcttatctct ctgaactgtt ccaacacttc cccattatcc
102721 agttccaacg tcacttctac attttcaggt gtctttatac tccactctcg gtacaaattt
102781 tctgtaatag ttcttactca ccttgctaaa agaactgtct gagactgggt agtttataaa
102841 gaaaagaggt ttaattgact cacaattctg caggctatgc aagaagcatg gctgggaggc
102901 ctcagaaaac ttacaagaaa agagaagggg aagcaagcat gtcttctcat ggcagggcag
102961 gagagagagc aaagggggaa gtgcaacaca ctatttattt atttatttat ttatttattt
103021 attta tttat ttgagatgga gtttcacact tgttgcccag gctggagtgc aatggcatga
103081 tctcagctca ccacaacctt tgcctcccgg gttcaagtga ttctcctgcg tcagcctcc
103141 ccaatagctg ggattacagg tatgccccac cacgccctgc taactttgta ttttagtaga
103201 gacggggttt ctccatgttg gtcaggctgg ttctcgagct ctcgacctca ggtgatccac
103261 cagcctcggc ctcccaaag tgctgggatt acaggcgtga accatcacgt ctggcgtgca
103321 acatactttt aaacaagcag atctcatgag aactcactca ttatcacaag aacagcaaga
103381 gggaatcta ccaccaagat tcaatcacct ctcatcagac ccctcctcca acacatggga
103441 attacaattt gacatgagat ttgggtgagg acatagagcc aaaccatatc atctcctaat
103501 cacaacttaa aaatcaatct gtgtgatcac agatcctgtt ttttgtcttg gttttgctta
103561 actgttaaat gtctatgcct agcatgtgcc tgacacagag aaggtattca ataattata
103621 tttggtgaat gaatgtacaa attaattct agtttcatgg tttgaacagg gcttggtgta
103681 tttctgatga ttttgaatt accaccaatg actataattt aaattttcaa acacaaattt
103741 atgcaatag ggaatatgag gaaatgttga ctctggccaa gttatctcta aaacaacaac
103801 aaacgaaaaa caattatttt ccactgggaa aaccatttgg ataactgttt agttaaacaa
103861 attttgtgtc cagctaagat gtgggtgtct ataaacttat atccaagaca tacttaatag
103921 gcttcgtttc tagagtccac cttatgatgg cctaatcatt tcttctttgt aaccataaag
103981 aaatagtgac aattgccttc agtcaatagt ctaagcagaa atttgaaaat tgccctcata
104041 atataaatct gagtttcttc tgtgttggcc tgaagaaaga aaagtaactg tcagcaaata
104101 acgaaataat tttacttgta tttgaatttc tgcttcttta aaaataatt caaaaaatat
104161 aatattaagc aaccctgcac cagccttcag gcaaggcccc aattggctga cactgaaggg
104221 ctactgtgac cttagggtaa ctgtgcactc ttctgccacc attgttaagt aatctaatta
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FIGURE 1 (continued)

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104281 gtattatgtt aggcaaagat tgcagataac caagaaattc cttcagtagt taaaaaaaaa
104341 tcagtattat atgaggaaaa caatttgcct ccacccatcc ctcacaccat acagaaaaat
104401 taatttgtga tagattatag atttaaatgt aaaaaaaata aaactataga gttgctagta
104461 gaaagcataa cagaatgtct tcataaactt tgggtaggca aagatttcta aaacaagatc
104521 tagaattaat tatcctaaac tattaaaaat taacattttt aactattgac tattaagcat
104581 taaaataatc gatacaattg atgtcatcaa ggttcacatt tctgctcatt aaaaggtact
104641 actgagaaat tgaatgggaa agccgtagag tagaagaaaa catttacact acagtcagac
104701 ctctttattc atcggttcta cattcatgga atcaaccaac cacaagccaa aagaattttt
104761 taattgtatg tttactaaac atgtacagat ttttttctta tcattattcc ctataaaata
104821 cagtataaca actatttcac agcatttact ctctattaga tattgtaagt aatcctgaga
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110281  ggaaagtaat  tttgtagata  aatcaataga  aagtattaaa  tttgaataat  ggaataaaaa
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110641  tataggagaa  taactattaa  aattatgta  cattctcat  cagaaagaat  acagtgttt
110701  gaaaattta  ctgtactgaa  agaaaggagt  tgtcagccta  gaactattat  tcagtaaata
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111121  atggattgga  acaatcaata  ttgttaaaat  tttgtacta  ctaaagcaa  tctacagatt
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FIGURE 1 (continued)

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111361 cagcatgttt atggcatgtg aacaggtaca cagaccaata gaacagaata gagaacccag
111421 aaataaatcc atacatctac agtgagctca gttccaacaa aggtgccaag gacttaagtt
111481 gaggaagaac aatatcttct ataaatggta ctgggaaaac tggatgtcca tatgcagaag
111541 aatgaaaata gacccttatg tcttgctata tatgacaatc aaatcaaaat gaatgaaata
111601 ctttaaccca agaatttata ctatgaaact actacaaggc aacattgggg aaactctcca
111661 ggacactggc ctggacaaag atttcttgag tagtatttca caaacacagg taaccaaagc
111721 aaaaatggac aaatgggatc acataaagtt aaaacgcttc tacacagcga agagaacaac
111781 caacaaagtg aagaaacagc acacagaatg ggagaaaata tttgcgagct atatacctga
111841 aaagggatta ataaccagaa tatataaaga gcttaaacaa atcaatagaa ataatctaat
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112141 atgtaaatta gtacaaccac tgtggagaac agtttggagg ttcctcaaaa aactgaaaat
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112861 ctcataaata tatacatcta ttatgtaccc actaaaatta aaacaatagc ancantatat
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FIGURE 1 (continued)

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117481  gctcagcaat  actacattac  cttcaacttt  ggagaagttc  catgctgctg  ttgtttactt
117541  tcctctgtac  atacatgctt  tttatatatc  ctggaatcct  ctccccctaa  tttccattt
117601  ctgcatctct  acctgctaag  tcctctttat  cctttaggtg  tcagtgtagt  gctccctttt
117661  tgggtctctt  gtatgctttt  gtaatctgtg  gagctacttt  tgttacagta  tgtatttcttc
117721  acggacagg   aatgatattt  gcctgttttc  ttgctctctct tactaggcct  ttggtctagt
117781  aattacagaa  accttatctg  tcttgttcac  tttgttctcc  ccagggtcca  gcacatgtgt
117841  atggaatact  acgctttcaa  caaatcttaa  ttgaatgcta  gagtcaataa  tctaatgacc
117901  tagcattatt  cttggagta   gtaaggcaga  ttatttctg   gcagggcaaa  agcattatca
117961  aattactatt  ggttggctgg  gcatggtggc  tcacacctgt  atcccagcat  ttgcaggct
118021  aagtgggtgg  atcacttgag  ggcaggagtt  caagaccagc  atgaccaaca  ctgtgaaacc
118081  ccgtctctac  taaaaaaaca  aaattagccg  gggtggtgg   cacatgcctt  taatcccagc
118141  tactgtagag  ggctgaggca  ggagaatcgc  ttgaacccgg  gagacaggtt  gtagtgagcc
```

FIGURE 1 (continued)

```
118201 aagatcacgc cattactctc cagcctgggc aacaagaaca aaactctgtc tcaaaaaaaa
118261 aaaaaaaaaa agttggtcac tgtaactttc cctaggcaaa tttaatagat gaatcccttt
118321 actatgtgtg tgtagtcact gttttagctg tctgtgatac tgtcagtgcc agttagtcaa
118381 gagctggtag aaccccactt ttcccataac tacatagtgt tctgttcctc cttggtaata
118441 taatatttta atcaaattta ggctggtgcg gtggttcaca cctcatgtca cgttaggagg
118501 ctgaggcagg cagatcactt gaggccagga gttcgagact ggccagcatg gtgaaaccct
118561 gtctctacta aaaatacaaa gaaaaaaaaa agaaaaaaaa ttaggcagct gcttgtaatc
118621 tcagctactt ggcaggctga ggcacgagaa tcgcttaaac ctgggaggca gaggttgcag
118681 tcagccaaga tcgggccatt gcactccagc ctgggcgaca aagcgagatt gtgtctcaaa
118741 aatttaaatg tctttgagga gtgattttgg tcctgagaat ttagtgatta tggataaggc
118801 cttatgttca gtgatttcaa cgtgatcacc aattccttcc aaatttccag gatgatgctg
118861 actggagctt taaaaagtga ctaaaggaca tatcacaaga aaaggagcac taatccttaa
118921 tcatttagaa agacctaggt gtactaagaa atattaagtc ttcttggaaa catttttcagt
118981 ttgcactatc actgtttctg gcatttcaag ctatgtgatg ctcctattat gttttctctg
119041 atattatcat atctagttca ttttgttatt ctattagaca ataaaatatg aagttttatt
119101 atagatatta tatttggtat aatacaaaaa ctcgagaaaa tttgaatatg taaacatttta
119161 acactaatac tttataatat taggttaaag ttaaataaat tcaaatgagt atgtcacgta
119221 ttcttcttat ccaggctgat ggggaaagaa ggctgattat tacaaacatt ttttaacctt
119281 tataaaaggt ggaaggattt tttggtatga ttttttgtaa gttagtttta cttattattt
119341 tgtttagtaa tggatgttta taatgatagt ggttttgagc cataatattg aactaaacat
119401 ttaagcagtt ttttcattaa aaatgtatat aatctataag tggtgaagtg attatagtat
119461 gttgatgata ctaaagtata aaaaatgagc ttatttccta ctttctccaa attttatgcc
119521 attggaaaaa atattaacaa ttttaagtaa ttttaaaaat catttatact gccctcccat
119581 atggttttaa ttcatagctg ttttcagttt ttatgtctcc tcagtatata tctatgaaca
119641 tttatatttt cctttgtttt catagtagta tataaacaat tttgtgtttc ttaattaaca
119701 ttttatttaa aacatattta ggtattttaa ataattattt tcatacttgg tctgtataaa
119761 tctaatatga atcaattttt agatagaaac tggtttctaa tttgaaggtt tacttttttct
119821 tgaaacccat ttattgttag taatgtataa gatgcatatt ttaatgttca gcctttttctt
119881 ttaaatatca aacaatatac atcttaatta tgaatttggt agcttttttaa aattttactt
119941 taagttcttg gatacatgtg ctgaacgtgc aggtttgttg tacataggta tgcatgtgct
120001 gtggtggttt gctgcacctg tcaatccgtc atctaggttt ttaactctgc atgcattatg
120061 tatttgtcct aatgccctcc ctccccttttc cctccacccc tcaacaggct ccagtgtgtg
120121 atgttcccct ccctgtgtcc acgagttctc attgttcagc tcccacttat gagtgagaac
120181 atgcagtgtt tgtttcccgt ttctgtgtta gtttggtgag gatgatggtt tccagcttca
120241 tccttgtctc tgcaaaggac atgaactcat tctttttcat ggctgcatag tattttcatgg
120301 tgtatatatg ccacatttttc tttttttatt attattatta ttattatttt ttttttattg
120361 atcattcttg ggtgtttctc gcagagggg atttggcagg gtcataggac aatagtggag
120421 ggaaggtcag cagataaaca agtgaacaaa ggtctctggt tttcctaggc agaggacttt
120481 gtggccttcc gcagtgtttg tgtccctggg tacttaagat tagggagtgg tgatgactct
120541 taacgagcat gctgccttca agcatctgtt taacaaagca catcttgcat cgtccttaat
120601 ccatttaacc ctgagtggac acagcacatg tttcagagag tacagggttg gggataagtc
120661 catagatcaa caggatccca aggcagaaga atttttctta gtacagaaca aaatgaaaag
120721 tctcccatgt ctacttctat ccacacagac ccggcaacca tcagatttct caattttttc
120781 cccacccttc ccgcctttct attccacaaa accgccattg tcatcatggc ccatcccac
120841 ttgagccgctg ggcacacctc ccagacgggg tcgtggctgg gcagagggc tcctcacttc
120901 ccagtagggg cggccggca gaagcgccc tcacctccg gatgggtggg ctggccgggt
120961 ggggggctga ccccccacct cctccccgga ctgggcggct tgccgggcgg gggctgcctt
121021 cccccaccctc cctcctggac aggcgactg gccgggcaga gggctcctc actcccatc
121081 agggccggcc gggcagagga gccctact tccggacgg ggtggctggc cggcggggt
121141 gctgacccc ccacctcct ccggccggg gcggctggcc ggcagaggg gccctcatc
121201 cccagtaggg gcggccgggc agaggcgccc tcacctctt ggacggggcg gctggccgac
121261 tccccccccc cacctcctc ccggacgggg cagctggcc ggcagaggg ctcctcact
121321 cccagtaggg gcggccgggc agaggagccc ctcacctcc ggacgggtg gctggctgg
121381 cggggggctg accccccca cctccctcc ggacgggtg gcttcgggc ggagacgctc
121441 ctcacttct agacagggtg gttgccggac ggaggggctc ctcacttct agacgggcg
121501 gttgccggc agaggtttc ctcacttct agacggagcg gccgggcaga gacactcctc
121561 acctcccaga caggggttgcg gccagcaga ggcgctcctc acatcccaga caggcggtg
121621 ggcagaggt gctccccaca tctccgatga tgggcggcc ggcagagatg ctcctcactt
```

FIGURE 1 (continued)

```
121681  cctagatggg  atggcggcgg  ggaagaggcg  ctcctcgctt  cctagatggg  atggcggccg
121741  ggcagagacg  ctcctcactt  tccagactgg  gcagccaggc  agaggggctc  ctcatatccc
121801  agacgatggg  tggccaagca  gagacgctcc  tcacttccca  gacggggtgg  cggccgggca
121861  gaggctgcaa  tctcggcttt  ttgggaggcc  aaggcaggca  gctgggaggt  ggttgtagcg
121921  agccgagatc  acgccactgc  actccagcct  gggcaccatt  gagcactgag  tgaacgagac
121981  tccatctgca  atcccggcac  ctcgggaggc  cgaggctggc  ggatcactcg  cagttaggag
122041  ctggagacca  gcccggccaa  cacagcgaaa  ccccgtctcc  accaaaaaaa  aacgaaaacc
122101  agtcaggcgt  ggcggcgcgc  gcctgcaatc  gcaggcactc  ggcaggctga  ggcaggagaa
122161  tcaggcaggg  aggttgcagt  gagccgagat  ggcagcagta  ccgtccagct  ttggctcggc
122221  atcagaggga  gactgtggag  ggagagggggg  gaggggggag  aggggagagg  ggagagggga
122281  gaggggagag  gggagagggt  atatgccaca  ttttctttat  ccagtctatc  attgatgggc
122341  atttgggttg  gttccaagtc  tttgctattg  taaatagtgc  tgcaataaac  atacatgtgc
122401  atatgtcttt  atagtagaat  gacttagaat  cctttggata  tataccctgt  aatgagatta
122461  ctgggtcaaa  tggtatttct  ggttctagat  ccttgaggaa  tcactacact  ctcttccaca
122521  atggttgaaa  taatttacac  tcccaccagc  agcgtaaaag  cgttcctatt  tctccgtatc
122581  ctcaccagca  tccgttattt  ccagacttta  gcgattgcca  ttctaactgg  catgagatgg
122641  tatctcattg  tggtttttgat  ttgcatttct  ctgatgacca  gtgatgatga  gctttttttt
122701  catgtttgtt  ggccacataa  atgtcttctt  ttgagaagta  tctgttcata  tccttcgacc
122761  actttttgat  ggagtggttt  ttttttttttt  cttgtaaatt  tgtttaagtt  ccttgtagat
122821  tctggatatt  ggatggatag  atagcaaaat  ttttttccca  ttctgtaggt  tgcctgttca
122881  ctctgatgat  ggtttctttt  gcagagcaga  agttccttag  tttaattaga  tcccatttgc
122941  caattttggc  ttttgttgca  attgtttctg  gtgttttagt  cgtgaagtct  ttgcccatgc
123001  ctgtgtcctg  aatgatattg  cctaggtttt  catctagggt  ttttatagtt  ttaggtttta
123061  ggtttgcctt  taatccatct  tgagttgatt  ttttataagg  tgtgaggaag  aggtccagtt
123121  tctgttttct  gcatatggct  agccagtttt  cccagcacta  catattaaat  agggaatcct
123181  ttccccattg  cttgtttttg  tcaggtttgt  cgaagatcag  atggttgtag  atgtgtggtg
123241  ttatttctga  ggcctctgtt  ctgttccatt  ggtctatata  tctgtttttgt  taccagtacc
123301  ttgctgtttt  ggttactcta  gccttgtagt  atagtttgaa  gtcaggtagc  atgatgcctc
123361  cagctttgtt  ctttttactt  aggattgtct  tggctatacg  ggctcttttt  tggttccata
123421  tgaaatttaa  agtagttttt  tctagttttg  tgaataaagt  caatggtagc  ttgatgggaa
123481  taacattgaa  tctataaatt  actttggaca  gtttggccat  tttcacgtta  ttatgagcat
123541  ggaatgtttt  tccattcgtt  tgtgttctct  cttatttcct  tgagcagtgg  tttgtaattc
123601  tccttgaaga  gatccttcac  gtccctcgta  tgttgtattc  ctaggtattt  tattttcttt
123661  gtagcagttg  tgaatggaag  ttcactcata  atttggctct  ctgtctatta  ttggtgtata
123721  ggaatgcttg  caatttttgc  acactgatta  caaaagataa  acaggggaag  agctaatcac
123781  ctgatctaca  catgaacata  actcatttct  gaaactaatt  tgatttgtaa  taaaaataga
123841  gatgtgaatt  ttgtgcataa  aagctgtagt  acttgggtca  ctgtgacctt  gaataattgg
123901  atatgatttt  taaaaggaag  aaagaggaaa  ggatttgggc  ggaaaagttt  ctctgtcaat
123961  gaaaatgaca  tcatacttgg  aaacatttttg  atattgtgaa  agaagaatca  ggaaaatact
124021  atcacctagt  agcccaggag  tgcccagagc  agcctaactg  cataaacagc  cttctgcacc
124081  gtctagagct  gccagcaaaa  atgtctctag  ttttcatgag  gaaaacagat  gtaaatgggg
124141  ggtggtgatg  gtggataacc  tctgcctgtg  tggtgagagg  tccaaagag  ggaagtttct
124201  agtcaaaagt  aatgtttcta  aaatatctta  gttatctagg  aaacaaattg  agataaaaag
124261  cagagggtag  gaaagtgaca  agtttaattc  cgaaaactaa  aagtgctgtc  ttttatgctc
124321  taacatttta  aaactagtga  tcatttaat  attcatatag  ggattctagt  agactgatca
124381  ataactcatg  aaataaattt  tacattttta  ataagatttc  cgagatggtg  gaaataccag
124441  tttttatata  taatagagac  tttagacatg  gccaaatatt  tgggaaattc  ttcttgtctt
124501  ttaaaaaaac  tttttctcag  gatatttaa  ataaaactat  gtttttcacc  cttgcatatt
124561  cttatcttt  ttaagaaata  atgctaaata  ggggatacat  ttccacatag  atattttttc
124621  ttcaaaacca  tattttgtag  aacacaaatg  attaatgttt  gcctttgtca  tttgacaaca
124681  gtaaaatatt  tattttgttt  ttattatca  agacacatta  aaatgaccac  attgactctt
124741  gaaatgtcgt  taatatcatg  actacatctt  tcctgccttg  taatttgttt  cctgaattat
124801  cctgtagtcc  agaagaaatg  tgaatggctt  acttgtccat  gtcttctaat  tttgctgtag
124861  agattaaatg  tagctatatc  tataatatct  gtacaacaca  aagttttttcc  cattttaaag
124921  ttcctgtttc  agcagtgttt  gtttcagtgt  ttcagtacaa  taagaatatt  tgaacaggat
124981  cccaaatatt  tgagaggaat  ctggcaaaat  ggtacccaac  tacttcatgt  attccacact
125041  ttaacatccc  ctttaggact  ttaagaagct  agaaaactct  agttgacact  ttggtacatt
125101  tttgatccc  catgtttaac  atggacttt  ttcttttgat  ttcattttac  cttttccaatg
```

FIGURE 1 (continued)

```
125161  aaaaattatt  gatcatataa  tgataatagg  gattttaggt  gcttttaaat  agcatgaggc
125221  aaaattatag  tttgtggaaa  gaaaatttaa  aaagcctatt  aatatgaatg  ctcataccac
125281  tactgggtat  taaaattgca  gaagatgtag  taatttcact  tgctgtttac  tcagcaggat
125341  cttccctaac  atgttcaaat  tctagggata  ttaaaaattt  tgtttgaggg  ttcagagcaa
125401  atctaagtgt  gtctacctct  gtcacctatc  cttcttcctt  cacaccaccc  ctccccaaaa
125461  cacacagaag  agcacagaat  ttttttttta  cagttaaaat  gaataccaat  agctgtttaa
125521  gaacagatac  ctcacaaagg  ggatactcag  agagatctga  aagaaaatgg  gtagagaaat
125581  aatattgtac  tttagcttac  tgtcactagg  atttgtcaga  tgactgttat  tagtggttgc
125641  cctagatctg  ttttgatctg  caagctctct  tttcctgaat  cagtacccct  gaatcactgc
125701  ccagaagctt  agcttatagt  agcatagttt  cctggaagag  cttagtgtct  tttggtgaca
125761  aagccttactt agtatttatt  ttgtgtggcg  ttgtgttagt  tagaggtcac  attactactg
125821  ccccatttac  tgtaggtgtc  tgtgctcagc  ctttaaacag  gtttatctta  ttactaaatt
125881  actattcatg  tgactcttat  ttgtattttt  cctaataagt  ctcactatcc  catttaaaac
125941  tctatttcat  tgtttgcttt  ttcttttttg  atcatccttt  ccggtattat  atctaatata
126001  atatgaaata  aaatgacctt  tatgattat   aagacttttt  ttttgacatt  tctagacata
126061  ctttgtcctg  ctttacaatt  catattctgg  agaagactat  tcagtgtgca  cctacagatg
126121  atatattagt  agaattacta  aaggaatata  cctgctgcag  aaaacatgct  tttaaattag
126181  atgattatag  aatgaaacca  caccgatgag  aggcctgctt  tcattaataa  ccttttcctt
126241  catttacaag  attctcctga  attattttgg  aaactatgta  cccaattcat  ggacacagga
126301  taatggctgc  actctttgtg  aattcgatac  agtcgacttg  tctgcagtag  atgtaagtgg
126361  aattgattat  gtgtgaaatg  tagtaataga  aagtacattg  tcatgaaata  ctgtgattta
126421  taggaaaaaa  ggcaaattat  tttatagttt  tgattttatg  atagataatg  gggatatagt
126481  gttaaacat   gatgattcag  ccatttgcta  gatttgtgtt  tcagaactgt  tttttgacag
126541  aaaaaccagc  taataattga  acctaatgaa  agagtcctgt  ggttaatatt  taatagctta
126601  ctacgattga  gtgctcttgt  gtttattctg  ttagcttagt  caaagcattg  agaaaaaatc
126661  attacaaggc  ttcagcattt  ttattgacta  attttatctg  tgctggattt  tcaaagttga
126721  tatgtaaaaa  ttaatactac  ctgattatat  aacaaacgac  tgttttaact  actttacata
126781  taataactca  tttaaacttc  acaaaactcc  taaaataggt  agtacaattg  actcagtttt
126841  acagacgaga  aaactgaggt  gcataaatgt  aagtaacgtg  tttaagggca  cacaatttta
126901  agtgttggag  ttgggatttg  aatataggga  gtctggctcc  agactactgt  atgttcttga
126961  cactgtgcat  ttttacctgt  gtgatgtgta  tattctaggc  atgttgctac  ttgtatgtat
127021  ttcatagata  gttatatttt  atcattcatg  ttttgagggt  gaacaaagag  ttgaaaatat
127081  tcattattaa  tctataaaac  atttttatgt  atctttgttc  taacatcagc  cagagctgat
127141  atcttacaac  aacattttta  ttccaaaaaa  ttgctgacat  aacatggaag  attatatgta
127201  tgaagcattg  attctaggga  gttttgtcat  taagactgat  ttttttccttc  attcactgta
127261  agttcattga  gtatctacag  cagccagaaa  cgtagaagca  atataggcaa  aaataaagct
127321  cttaggaata  tagtactact  aactcctgaa  cccatgcaaa  tgcaaaatac  tttactgta
127381  atatgttcaa  gctcctgaat  taaatagttt  ctattcttat  cattgtctga  aaggagtata
127441  aagagtaact  tgtgtacatg  taggagctta  tgaatagagc  cctattttac  ttgaaagtaa
127501  ggtttttggc  cagtctctca  gatagcaaac  tgtttcctat  ctgcaaagaa  tgccagaata
127561  ttttctgaatg  aagctgcatc  atgaagatgt  ttaaaaattt  atcctgatct  tttttttgctg
127621  aaagtagtgt  tgtcttctgg  agggcgagtt  aatacttttt  atctgtttcg  tttcttttg
127681  tataaactt   ctggtgcaaa  gatagaaaaa  tatttatatt  aacatttttt  cttttttgcat
127741  gtaggagtat  gtaatttaat  acttaagctg  tttgtctta   cagcttgtta  aaatgtgata
127801  gaaggaaaa   ctattcattc  cattatgcat  aataaaatta  cgtgctatat  acagctgttt
127861  tttaatagggg atataaaaat taaaattgtg  taggtagtta  aatccaagc   ctatta taat
127921  gttagatgtg  ggccataggc  aagttcttt   atatgtaaag  tcatagtgat  tattcagta
127981  tgttggtagg  aatgttaaat  gaaattttac  ccacatatat  atatgaatat  acatatcatt
128041  tatataaatg  atattctatt  tgtataaatt  taatatacat  acacaaagtg  gtcattattt
128101  aataaatgtt  aactgttata  atgttgttgt  tatataaaca  tgaacttagg  ttaataattg
128161  tgatgtagtg  gattgaaacc  cagcacttta  ccctcaaata  tatgtgttct  gggttacatta
128221  aattttctcta aatctcattt  tcctcatgtg  catatttggg  agaaataacct ctaaggcttt
128281  tatgtaaatt  aaatgaaacg  catcatctca  tttgataaag  gagagttgtg  acctacttt
128341  aaaattattt  ttcctattaa  attgagaact  actggagagt  agatattttg  tgttctttgt
128401  atttgtttat  tcattaata   ataaatattt  gggcaagtga  atgaatagat  gaagaaatat
128461  gatagtgtac  aaggtgtact  tttatgtgag  catatgttat  tatacagata  atggagtaat
128521  gtgtgaggta  ccgtgtatga  aaaaatggaa  gaaggttgct  aattcagcac  ttaatgtata
128581  aggtatttaa  aaatattgt   aatcttttg   ttcagacttt  aagacatggc  tttagtaaga
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FIGURE 1 (continued)

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128641 cattataaac aagtcttcca tagatttctg gtcatgacac tgttacatgg gtgtttactt
128701 atgttcctgt cttccccatc tacttgtaag tctttcaagc caggaacttt cattcctttt
128761 gccaaatatt gcccatcttg tggattggaa tgtataatgg ctatttcaga attgtttgtg
128821 caattaatga aggataaact ccacaccaaa acatatctaa agagaactta agaaaatata
128881 ttaaaatata tacattaaga taagatatat taacattaat gaaagaaaat agctctcctt
128941 atacataata taataatgaa aggaaataaa aggataaagt ctcaggtctc ccatgattgc
129001 tttttatgtg ctcaaaatta agccctgaac tttaagccga ggaaacaaaa agagaaacac
129061 aattagtatt tggtttctta gacgaaactt tcaaaatagc tttcagatgt gaagaagttt
129121 ctgcaagggc tattttaaag gaagcactga ctagtagtgt aggcagtacc atgaattaca
129181 ttcatgtaat aaataggata atttcatctt taaacctaac tcataaccaa gatgggattc
129241 agtaaaatca ctttgattgg ggggccaca aaaatttgtt tcaagtgtta gagaactgcc
129301 atggagcaat tcaaatttag cagattatgt tgaattgata ttctagtatt ttttatgtca
129361 tgctgattaa catttgaata aaatttaaaa caaaaccata ctaatgataa ttttattttt
129421 atgtttggtg taaaacaaag gtccatccaa acgtatcaat aggtgttttt attgagcaac
129481 caaccccttt tctacctcgg tttctggaca tattgttgac actggattac ccaaaagaag
129541 cacttaaact ttttattcat aacaaagtaa gtatttgaga aatgaatatt ttatgtcaaa
129601 actatttttg gtcttttttg gaactatttg ttatttatgt caaataaaat tcattgggtt
129661 aagttcagtg gaggattttt ggagtaatta cagccctgcc tttttaggac ctaaggattt
129721 tagattctag agactagcac cacaatattg atatgagcca catgaaactg ccagtttctg
129781 tagatcaaaa atggctgaat attagccatc atcatatagc ttaaattaat atataatcaa
129841 ggagattcaa agggccttaa atcccttgc ctttgggtta gttctggtac tttcttctat
129901 agaattggtc attaaattgt ttgtgattta agacaataac atataagaac ttgaaacagt
129961 ttccagatag agtactgttt tgattaatta cacaagggca tgccattccc caaaggattt
130021 tgatactgtc attttcttca aaaatattca gagcccccta catacctcct acatattatc
130081 caaacttgaa aatatttttc ctcagtattt ttacagttat ttcttgtcta ctaaaaccac
130141 tggtatttaa cattgtctag aaaaactcaa tagctgtgaa gtgtgcgatt ttctctcttc
130201 tgtcctaata ctgtttgttt accattgttc cttttttccta atgtaaatgt cagctaacca
130261 ttcacattgt ccagagaata ttttaactgc agaaaactag cttaaatgga tttaaaatgg
130321 tgaaaaattg agcatttgct ttgtaaaata tgttgtaata tatatacttt cactaaagta
130381 ttttgttttt atgtattgtc ttttgtttat attttccctg ctttcatggg gccttaaaat
130441 ccttgatggc ggacgttttt gtcttatctt tggttattta gtattaactc tatgttgctt
130501 ttatgtgata agttatttta aaaatctgca aaaagcaaca gcttttcaga aaacttagag
130561 acttgacaaa taaaaatctc tgaaatgctc taatgatgga gacagataat cttacctgaa
130621 ttttagcaca gtcgaatcac actaaaattg gtaaccttta tgttgatggt tttcccatta
130681 atctgtccat agaattttgt taaatttttc cttttttgt taagtaaaat tttttatat
130741 atgaccattt attttactct ctggtttcaa agggtatttt gtaaatgtg attatttaag
130801 tttataactc agattgatgg ctattatgct tagtagacat tttttctaga tatttcacaa
130861 catatatcta agatttctag gctacaggcc gtgtttttct tctccagttg gaaacatttt
130921 atattactaa ggatttaagt atttatgcaa acacctatta aagatttaag tatttataca
130981 aagacttgtc tagcagtaga tattgacaga attttgaagc atcttctctt taagaatatt
131041 gatatatg tatttaagat tattcatgtg acatttaagt gatatttaaa tataccgtgt
131101 ttaatatggt tattatttta tatgtaattg aatatctgaa ttgtagaatt catgaccttg
131161 aatgtgaagc actctctaat atgaatactt cagtcatctg attgtcttat tctctaattt
131221 ttgattttta aaatatgtta caggaagttt atcatgaaaa ggacatcaag gtatttttg
131281 ataaagctaa gcatgaaatc aaaactataa aaatagtagg accagaagaa aatctaagtc
131341 aagcggaagc cagaaacatg ggaatgtatg ttttaataaa ttaaaattaa attaaattat
131401 tttactaagg aaacgttaag aaaaaataaa cttttaaatt aaaattgtta tgccaaattt
131461 gggtgtctca aactatttgt ttgcgtatgc agtagccaac ttagactgtg tttatgtttt
131521 tacgtattta tacataaagg gctgtagaag ttacttatgt tttttcttta atggctacga
131581 gtccacatat ttaatcaaat gatgaatcaa ggtaagatca attttttta aatgcagata
131641 aatgaatagt atgactttca tagcagtgac ttaaattaa atgtacactc tgaaggttgt
131701 gtgtggtaaa agtgtgttta tttagactgt gggggaaaca ggtgctctta ctctccagtt
131761 agtcactgag ctagataata ctgtaatccc aagaaacggg cattgtaggc ctttttgttta
131821 gccctgttaa tgcttcattc tactaataaa actctagtaa tagtaaaaaa aatcgtgtat
131881 tcaatgaata ttaattgaat atgccaggaa ctgtgttaag agtaggtgat aaaaaggtga
131941 agacatgatc cattctcatc aggaaataat cttatctact acgaaccctc atgcctgtgc
132001 tgcagaagct gaggtccag agggatggat tctgactaga ttaggggtct agggatagac
132061 agaaagagg ccctgaaaa accaaactga tgttattact aatgattcca taattattc
```

FIGURE 1 (continued)

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132121  attggagaat  cctctgggtc  cacattcaga  acatattttc  tttaatattt  ttcatgattg
132181  tacctagtgc  ttctgtctgg  tattttgttt  gatagttgct  tcgaacaaat  atggtgtgga
132241  gacacacact  gacaacagca  aaaagtgctg  actgggaccg  acagtgaggg  aggggagccc
132301  agagggaagt  tgataaccca  aatgtcatct  ggtatctcca  gttgttcatt  ccttgatatt
132361  gctgatgata  atgttacaaa  ctgtaccagg  gaaagcaaac  atagtcactg  cccctggtaa
132421  gaaggcaggg  gaataactat  cttagaaaat  ttgatgaaaa  tcaagtttgt  aaaatattaa
132481  tacctgaaaa  gtcatatact  tacatctcca  acattcattt  aaaactgagt  tgtgggatat
132541  gtaagttgca  tttgtgtgca  tgtgtatgta  tgtatgtatg  tatgcagaaa  cattttgatt
132601  tgtggatgtt  ttatgcctta  aaatatttac  tggcttgaaa  atatatttta  actggcttaa
132661  aattttagag  gtgagctccc  tgtgaatatc  cgtgttaaat  tgaccatttt  gaaatttaag
132721  acaatatata  tatcgtttca  gatattgttc  cactattttg  atcagaaaag  tatgctagag
132781  aaccatattt  tacataaaag  aatatatata  ttaacatttt  tcagtcagca  gatatttatt
132841  ttatgtcatg  cccatttcat  tttctttttc  actgttaggg  acttttgccg  tcaggatgaa
132901  aagtgtgatt  attactttag  tgtggatgca  gatgttgttt  tgacaaatcc  aaggacttta
132961  aaaattttga  ttgaacaaaa  caggtacttt  ctaaaattcg  atatcaattt  attgttaaaa
133021  tgattatttt  tcatattgat  gtgaacatac  tgtagtaatt  gtgtatttag  taaattgagg
133081  gaacttagtt  atgttctaca  gctaataaac  tttcaattca  agttaattat  ttttcattta
133141  aaggagtcat  agaaaacaac  ctgaatacat  ctggaattat  ttaatattag  ttataatcac
133201  aaatacagtt  acttggccca  tttttctgtt  taaagctagg  tgaaattatg  atacatctga
133261  tactaaaatt  tagagttgtt  ttattctcta  tagatatttt  taaagtagaa  tttcacaaaa
133321  cttctgacca  agatagttat  tgcatacaga  gttgtagtcc  ttagtatcag  aaggaaattt
133381  cagaggtaca  aatcatccca  cagtcatatg  tgtagcttta  tttactgttg  aactagttat
133441  cacttcacag  tgtctgtttg  ctcatttaac  tcaattgaaa  tgggaaaaag  acaccatgta
133501  tatcagctta  caatgatact  aagtttgttt  gtcaatacta  ctgctaatac  taataatacc
133561  attttacta   ctcctgctaa  gacctcacct  ttaacaagtg  cttattaagt  gccaggtatt
133621  gttgtaagta  catgtattaa  cacaattatt  tctcataata  aatagaatgt  ttagcgggtg
133681  aaatgttaga  atgattgttt  ttattttgtt  aagtaagata  catgggaaat  gtagtatgct
133741  ttattaaccc  accctatata  taatatctat  ctatatatat  atatcactag  aatttgtaaa
133801  tttgagaatt  tagttcttac  ttcaaaaatc  taagacctct  ctgtagcaac  ctgtatatac
133861  agcccaactg  tatagctgtg  ttatagatac  tcagtatcta  agttaactat  ctatatacat
133921  cgtaggtaat  tttccaaagc  atatgaatga  ggttttgatc  atttggcaag  gaaaagcagt
133981  tgtgacaccc  tagagatatg  aaatagtgta  tgatttgtaa  ctcttaaaac  ctagtttaat
134041  tcagtactat  tttcttgaat  ttgcattgtt  ttctcttaat  ttgattgaaa  tgctatagtg
134101  tgtaatgccc  atatgctttt  taataattag  atattttcat  tttatgacta  taatttatat
134161  atttattaat  tattctctta  gtgaactatt  taatgaattt  acactatgta  tttgacatat
134221  atccctctta  atattaaaca  ttttaaatct  tctaaaagaa  aaaaaattcc  cggccgggtg
134281  tggtggctca  cgcctgtaat  cccagcactt  gggaggcca   aggtgggtgg  atcacgaggt
134341  caggagatcg  agatcatcct  ggctaacaca  gtgaaacgcc  atctctacta  aaaatacaaa
134401  aaattagccg  ggcgtggtag  cgggcacctg  tagtcccagc  tactcgggaa  gctgaggcag
134461  gagaatggtg  tgaacccagg  aggtggagct  ggcagtgagc  caagattgcg  ccactgcact
134521  ctagcctggg  cgacacagcg  agactccgtc  tcaaaaaaaa  aaaaaaaaaa  aaaagaaaaa
134581  gacttacctg  ccatctgggg  cccttgcccc  ttaaagagta  aaactcaggc  tgtgtcttca
134641  tggaattctg  ttagttaatc  aaaggtttag  gtttatgtaa  tacctatggt  tcttgcttct
134701  gtatctagac  atgtggtttc  tatagtctat  tgacatatgc  caggaatgtt  gcaagatttа
134761  gtagattgga  ctgaagagta  gagaaagaga  tttgacacat  cttgggcatg  tggcttttta
134821  ccttctcatc  agctctcttt  tttcctcttc  tctcctatc   tctatttgct  ccttgctct
134881  aaattttact  ccttaaattg  tataataata  tgaatcattc  ctcagctgcc  atccttcct
134941  ttttattcat  aaaaacattg  aggtatacag  cagatgaatt  ttggtttcct  aaatttcttt
135001  gtttaaacct  tttcaggagg  cagctgggat  tataaattac  aagttctttt  taaattaaat
135061  gtttgatatt  catattgaat  tattttccaa  attaatgtat  gtagattcta  atttatgtta
135121  ttattccag   tattgtaggt  attcaaaaca  aaacaaaaca  tgtgtttctg  attaatagtt
135181  tagtaggaat  tcggaagaat  aaaccaaaat  ttattatttt  gcatgatgtg  tattttatttt
135241  tatttattta  tttttttgag  atggagtctt  gctctgtcgc  ccaggctgga  gtgcagtggc
135301  atgatcttgg  ctcactgcaa  cctccgcctc  ccgggttcaa  gcgattctcc  tgtgtcagcc
135361  tcttgattag  ctggattat   aggtgcgtgc  caccatgcct  ggctaacttt  ttttggtatt
135421  attagtagag  atgggatttc  accatgttgg  tcaggctggt  ctcaaactcc  tgaccttgtg
135481  atttgcccgc  ctcggcttcc  caaagtgctg  ggattacagg  catgagccac  tgcgccggc
135541  tggatgtgtg  tttaattatt  tcactttgt   gcatgtaata  gaaagggccc  ggctggtctt
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FIGURE 1 (continued)

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135601  cacaagatag  aggtgaaata  ggttttcttt  tttcatataa  agaatagttg  ttccataaat
135661  ttgctttcta  aaatagttaa  aggaaagttc  agtgttgcca  ggactagctt  actgtaatca
135721  caagtcattt  tttaaagtca  tggaaaactg  gaaacatact  taagtaattt  gagacttaat
135781  tacaggaaag  ctttgcctgt  ttacaaacat  ctcagttcat  cttcattcat  tttttacaaa
135841  ttcaacaaat  attcattgaa  tatcttaaat  gcaccagggg  ctgttgttca  cccagtgaca
135901  atgaaaatat  ttggtttcat  ttaatatagg  ttccgaaata  ctttagttaa  acttaaatat
135961  aattaaataa  ctaaagtagt  ttccctctgt  tggatgtaag  caaggcattt  ttaaaagtca
136021  tttttatgta  ttcattagca  ttttcaatta  cttttttcctt  ctttgttact  ctttttaaga
136081  aatatgattg  aaaattagca  atatacttac  ttaagaaaag  atgttgggaa  agaagatcct
136141  tattttattt  ttattaacta  caggttgtt  gaatgagctt  tcttgtgtta  tatgtcatac
136201  taagcccaaa  atacataatt  ctgtggtaat  ttaaaaataa  ataattatat  aggtttctct
136261  ctctcacaca  cactctctct  gtctttagaa  agatcattgc  tcctcttgta  actcgtcatg
136321  gaaagctgtg  gtccaatttc  tggggagcat  tgagtcctga  tggatactat  gcacgatctg
136381  aagattatgt  ggatattgtt  caagggaata  gagtgtaagt  tacttggttt  aatattttaa
136441  tgtgaaatac  cataatctaa  agatgtagtc  ttgttagtat  tacttgaaat  ttttttttgca
136501  ttcatctctt  ttctttatag  ttaatgggaa  tttgagaacc  caagaccact  tggaatcctg
136561  aaatactagt  ataaaactaa  tatcttaaaa  aaatgttttt  aaagtcccaa  atcttcaaag
136621  gaacaagctc  attgctgtgg  ggaatactaa  gagataaatat  atgtttacca  tactcacatt
136681  atggttgata  gaagagtaat  actctttatt  taaaagcttg  gaaggggat  ttagtttact
136741  aactttttaa  tggttataat  taagggttgt  tttgataggt  tttaaaattt  ataattaagc
136801  caacagtaac  actaacagcc  agaacattcc  agtattcctg  attgcatgag  tttttttgtg
136861  tgaaatagct  attattctgc  tttaaataca  agtttttttt  accaatatta  gattttcact
136921  tctagagatt  gaaaagaata  tatttgctga  aaagtgtgtg  catgatttat  atttatttca
136981  gagacaatgg  ttgattacta  aaaataatca  caattgaaat  agttttgcta  aggtaatatt
137041  ggagaagaat  gtcattcttt  ttttcataca  tatgatggac  cagagtgact  aagacattac
137101  atgctttgcc  ttagttctca  aacatgtcag  cctgattaaa  aagggcagt  atactctcag
137161  gactaaaagg  atgtgccctt  acatttagaa  aaaaaaaggc  acacgtttct  gttcaaacag
137221  ttgagtggta  aaaagatgtg  ttgcttgtgg  aaatagtaat  tggtgtggaa  agcttcaatc
137281  tgaatgatgt  aaatacaata  aaggtttttg  ttagctgcaa  ttaaaatgca  cagtggagga
137341  gaaaagacta  ttaagatcgt  attctgttgt  ttctgtgcag  ttgtattgac  tctgggtgag
137401  ttgtatagac  aatatacctg  attgtatctt  tgggcacatc  acaaatgagg  gtttgtgaaa
137461  gtagaatgga  aaatttgttt  caagttgctt  taggcattgg  tgattttctg  tccaacctcc
137521  tgtcattctt  gtctaaagta  taaggaaaaa  aatatggcag  aagcttttga  tctggaatac
137581  acttcatgtc  caaaagctac  acgaaggagc  aactgtgtgt  gtgtgtgtat  gtgtgtgtgt
137641  ataagttgaa  acactgaata  attccccaga  gattaatttc  tgaatttagc  tgacacgttg
137701  tatacagtaa  ttcccctttta  tctatggttt  tgctttccat  ggttttcaagt  ctactgtgga
137761  ttgaaatac  gaagatatgt  tgagatagag  aaagtgtaaa  cattcatgta  acttttatta
137821  cagcatattg  ttatagttgt  tctattattg  ttgttagtct  tactgtactt  tatgtataaa
137881  ttaaactttta  ttataagtat  atatgtgtag  gaaaaaacgt  agtgtatgtg  tagcgtttgt
137941  tactatctgc  tttcaagcat  ccactggggt  catggaatgt  atcaccctca  cataaggcgg
138001  ggactgctgt  actccttaag  gcatttttct  ttgaggctag  tctagtaaga  cataatatca
138061  tattccgtt  aatatctaac  tgcatttctt  ggtcaagatc  ttgccttgat  gttctctaaa
138121  agaaggcgc  acagtcttag  gggcaaaact  tgttttgcag  tttttatgaa  atcagtcatg
138181  ttcagagtga  gaatatagat  gtgggaaagg  atgcaacgtt  catgtgctcc  cagctgtatt
138241  tcttcatgtt  ttccttttc  tataaaatat  ttaagatggc  ttaatgaatg  gtaagagaat
138301  ataattttgg  agaatttag  gctatattca  gtggtattt  ggtaaatgtg  taacaatggg
138361  cctttggagg  tggaggattc  cctgatttaa  agtgcttgcc  catttgttg  gtgtaaatat
138421  ttctaccatg  gctgattca  agttccaat  gtgaaattat  tgaacatgga  gtttttttgat
138481  aaagttaact  ttgggagcc  agtatgagct  gggtctagtg  caccactggt  tgtatgttat
138541  gattcatgct  atcaaattct  ttaatttaa  atagaaacat  cgtctataca  atagattatt
138601  atagtctaat  tgtaacaact  gattgagata  tgatagctat  aatacaaatg  tcaaacagat
138661  accaccccaa  aattgaaatg  tatccaaagg  ggcagtggtt  tatctcctaa  atcctattaa
138721  atatagtgta  tacaatgtaa  tcttatatat  atatcattga  atatatttgt  atgttgattc
138781  aataatttat  gtatacaaaa  tctaaacaca  aagcatttat  tttaaaaagg  taaaaatgaa
138841  acttaaaatt  gtttgtattt  gtggtatata  agaatgtctt  ctcttttactt  tcagaggagt
138901  atggaatgtc  ccatatatgg  ctaatgtgta  cttaattaaa  ggaaagacac  tccgatcaga
138961  gatgaatgaa  aggaactatt  ttgttcgtga  taaactggat  cttgatatgg  ctcttttgcg
139021  aaatgctaga  gaaatggtaa  gatatgcagt  gatggcttgc  ttgaatgttc  ttataaatg
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FIGURE 1 (continued)

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139081  gcttgcttta  ccagttggtg  tgtcactgtg  ttttgatgcc  ctttgtcttg  ctaatttgta
139141  agtactagcc  aatttttttg  gttctgtgtt  aaaaaatttg  ggagtaattt  tggagataat
139201  ttaacattta  cttatagaaa  tggtatgaaa  aatgttagtt  tttgtgctcg  ggctaattca
139261  taggcaaccg  agttggattt  cagtaataaa  gatgtatttg  ttacaaatca  gctttgctct
139321  tttaagaata  catctttaat  ttgaaattct  atagtgaaaa  cttgacctaa  ttaaaattaa
139381  ttagataagc  ttcgatgaaa  caatatttcc  agatttaaga  atatttttgt  tctaaaatta
139441  atgtccacat  tttctctaac  taggtaaaat  tttaaaatta  ttattaactt  cacattctta
139501  gaaagcagga  ttattaccac  caaactagta  gaagtgttga  gatacatagt  gtatttactc
139561  taaataaaat  actaatgata  ccttgctgca  ctacaaatgt  actttttatta taaaacttaa
139621  aatgactaga  aaataatttt  tcaaaatgca  taaacatggc  ttagaatata  ttgatatgat
139681  ttttggtttt  agaaatgatg  gggctatttt  atttccgatt  tccaaattta  tataagcaat
139741  tgtgatttga  tgaaaagtca  gaaaagttgg  caagtatttt  tttcttagtt  taacaaagca
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139981  aaggaatgag  cttagactta  tgtttgaccc  caccacacct  cccaaaaaga  aaagaaaaga
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140221  attttagact  ttacaaaggg  aaaaagactc  ccctactccg  gaaacattcc  aaatgctcag
140281  ccccccaaag  gtgttatttt  tacttatttt  atttattttt  gtttatttaa  tatttgatat
140341  agtatattgc  ctagtagtaa  agtttcttta  agggccttat  ttgcatttag  cttggtaaaa
140401  tgttgatttt  catcagtcat  ctgtgtgttt  gcgtgttttg  tgtgacttgg  gcatgggtct
140461  tgtgtgatag  tcaactcttg  gttctttgag  ctgatttata  ttttatggct  gacaggtgac
140521  aaagttaaac  ctaagtccct  ttcattcttt  ttttaggttt  ttatttcttt  ttaaagggag
140581  agaagagggt  agaagtaggt  ataaaataga  atttgattac  agtaaggttt  aggtgcacct
140641  tattgagtta  ttaatcacta  actcttttac  tattaaaaca  ggtccaaaaa  gaaacacatt
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140881  ctttctttga  aagagaaaga  agccaaaaga  ggtataattc  attgcactgt  gtctcaaaaa
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141121  tatatgaata  ctaaaaatgc  atgttcataa  atgaaatata  aagatagaaa  ttaatattt
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141241  attttctggc  atataggggtg  tatttatgta  catttctaat  agacatgaat  ttggaagtct
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141361  aaatctgtg  gtatgtattt  catactcaac  tttattattt  tcttataact  gtaagtggtt
141421  ataaatcagt  tggttaataa  tatgaaatgt  ggttagaggc  tttttaaaat  gacataagt
141481  gaaatgcaca  tcaaaaccac  aatgagatac  tgtctcacac  cagtcagaat  ggctattatt
141541  aaaaagtcaa  aaacaacaga  tatgggtgag  gctacggaga  aaagggaatg  cttgtatgtt
141601  gttggtcgga  atgaatttgg  aaagcagttt  gaagatttct  caaagatctt  aaaacagagc
141661  taccatttga  cccagcaatt  ccattactgg  gtatatagcc  aaaagaaagt  aagtcatttg
141721  accaaaaaca  cacatgaacc  tgtatctgtt  cgttgcagca  ctattcacag  tagcaatgac
141781  atggacttaa  actaggtgtt  cattaatggt  ggattggata  aagaaaatgt  gttatatata
141841  caccatagaa  tactatacag  ccataaaaaa  gaacaatatt  atgtcatttt  cagtaacatg
141901  gagagaactg  gaggccatta  ccctaagtga  attaatggca  cagaaaacca  aatcctgtat
141961  gtcctcactt  atgagtggga  gctaaacatt  gggtactgt  gaacataaat  ataggcattg
142021  tagacctgg  ggatcactag  aggagtgagg  gagtagggag  ggggacaagg  gttgaaaat
142081  caactaatgg  gtactgtgct  cactaccttg  gtgatgggat  cagtcatacc  ctaaacttta
142141  gcatcatgca  ttatacactt  gtaacaaacc  tgcacatata  ctcctgaatt  ccaaaagctg
142201  aaattgtttt  taaaaagtaa  ataaaaagaa  aaaaattaaa  acgacataat  taattgtatt
142261  ttatgatcta  tagagtagat  ctaaacttga  ccaataactt  gtttttatta  agacacttat
142321  tagcttggg  gaagggaatt  atcaatttgt  tctctttcaa  tattctatta  ttttttgtttt
142381  gtgtattcaa  aagcaccatc  cagtttaat  cacaatttta  gaaacatgtt  tacaaatagt
142441  ttacatatta  taatagtttg  atttttaga  agaaaattca  aaaagttttg  tttaggaaaa
142501  tacattttt  aaaattattt  tttgacaatt  ttgtgaatgt  acatcaaaga  tagccggaga
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FIGURE 1 (continued)

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142561 gaattgcaga gaaagctgat tgattcagca tatggagtct taacttgaag aaacaatttc
142621 cttttaaaat ctgttttctt cttctttttt tttttttttt tttacagat ttgagtggta
142681 cagtaattag ctccttttgt gttttacagg gacatctttt tgttaggcaa gtggcacact
142741 tattcaaggg aaaatgctgt cttcaacaat caaacctgta acactgctgt aatgattttc
142801 cccttgccaa tagtaaaagt tttaaattgc agactcaatc cacctgatga gaattgtcct
142861 ttattttgta ggaatagttg agatatgggg atagtaaatg tagtagtctc tgaatattct
142921 gaataggaaa atattatctt ttgacatttt gttattttaa aagtactttt gttccatttt
142981 aaccacatac cttcctcttt cacagaaata aagctgaaaa gaggtgtttt ctagtcgtga
143041 gggtagaatt ccatatttca cttcaccatt gaatctcttg gtgtcttgag ggatagaatt
143101 atttgatttc ttgggtgaca ttaggttcct ggtcagatat cctgaattat atcctgaatt
143161 gtagatattt gtgtaagaat tcaagtcttt ggaaagtaag caatgaaaat atcagaactg
143221 agtaggaaca agttttcttt ccatggcttt ctttgttaaa gcagcctgat taatatgcct
143281 agtgagggat accccatagc aaaatgctta ttgattatcc cattatcaga atttctaaga
143341 aattaataaa gtcacagttt gctcaatgat ttgaaaggtg atctaaaatg aaatgtgaat
143401 actaatgccc taaaataaaa tcttaggggа ttttttttttt tactttaact tgaagaaaaa
143461 tcagtattga tgcacaggaa aaatgctata ggtaaaagtt cttaaatctt atggatgatt
143521 attcaatttc ttgccacatt ttagaatcag aaagctaatt aatattagag ggaataatga
143581 gataatatag aaatctgatc catatatact atataaacat gaaatttatt aaaattttga
143641 agatacctttt gtttcctcca cataaaaaat gtttgagtta catataaaca gatatgcaaa
143701 accagtgaca taaattatgg tataaatatt cagcccctaa aatctagcct caaaagatgt
143761 atttaaggca aatatctttt aaaacatctt ttgattggaa ttattttgag tctgtgtctc
143821 acttcctccc tgctggctct ctgtatttgc actttgtaaa gagaaaatta ataatttcta
143881 gaaatattct aaatttcaga agatatcttt ttggatattt atattactcc atgtattaat
143941 aatatttttag taaatatcca tatttgaata aagaacttgt cccaataaaa taattctttа
144001 gctttt gttg aaaaaagttg agatatcttt gtgtgtggat tttatgccag agattggtca
144061 aaaagaatca aattcatgga ttagaataaa gagaaaccat tttttaatat agagccctaa
144121 cccttaattt tagtaactga aagaagtgca agtgctagta aactcatgat tattccttga
144181 taaatattaa taactgaagt gaaggcagaa attttaaaaa ctcatttaaa aaatcaaatt
144241 tagagtaatt tactatagac atataagaca gaccctagtt aattagttca ctaattcatt
144301 tttacaaata cttgttggta gaattttgct ccttgtcttt tacctttaag cacacctttа
144361 tttacctact ctgtgtatat attaaaatac tgatggtccc caacttacgg tggctttact
144421 taggaatttt cagctttatg ttggatttat cggggtactg tgtgtttta acctcccacg
144481 ggtttattgg gacataaccc catcgtgagt caaggagcat ctgtaaaatg tgtaaatcta
144541 ttcactgtaa gattacttaa gttttaaaat cctgaggtac aatatttcat aaataaaaаt
144601 tttgtatttc atagaatgac ataagcatat tcagaaccag gcaaagatta ggctatatac
144661 tgtgatttct gaaaaattact attttgtcca ctatacataa tcatttataa gttgaataat
144721 ттctaaaatg catatgcttt atacttttca gtgaagtatt tataaagata ttgttttaa
144781 tatgtacttc ttttttatagg actggaagga aaagtatata aaccgtgatt attcaaagat
144841 tttcactgaa aatatagttg aacaggtttg tattaatgat tacaaagtat agaaaattttt
144901 gctgttatttt tccagaagaa atattattaa tactactttc acagaagatg tgaaagtgga
144961 gaaactacct tttagtaaa atttatttga ttcaattact gattaaatag cattaaggaa
145021 catacagttg taaaatgtag aacatagaaa ttaacatttt aaaagcatgc ctttttaaaa
145081 agcatgctcc tatgtgtcat agcttctga aaccactaaa aatagaaact gttgacagat
145141 ctctgatgta gaactcttgc agtgaaagct tatctttgga agaaactggg ctgttttttt
145201 ggaagagtct tttctcagag acatctttga aacatgaatt ctctttagc ttagtgttta
145261 aaactattgt taatacctaa tttttgagaa tgtaagatgt catcaattct gaggtgcaat
145321 attattatg taccatgaga aaaaaaatac tgtcaataaa ccatgacaga aaactatgtt
145381 tcctagtcat acaggatttt ttattttaca catattaaaa taactatttt agattattаa
145441 gacacagaag ttattatgtc ttctaacgat gatgcatatt ttatagcctt gtccagatgt
145501 cttttggttc cccatatttt ctgaaaaagc ctgtgatgaa ttggtagaag aaatggaaca
145561 ttacggcaaa tggtctgggg gaaaacatca tgtaagttgt aatttcacac taagaactaа
145621 aatgtatgtg ggggttaagt agatactcag agaattcgga ggggttatat actttttctc
145681 atatgtctct gagttctaga cttagataaa ttggctagcc aaggctctga tttcagtcta
145741 cttctcccac caaccaattt ttttaacact taagtaattt cattagtttg ggcgggtttt
145801 tcatttatgc atgtaattac actggatgtt ccctaagggt cgatgtcctc aggccagagt
145861 ttgttaggta acacatgtct ttacagagtg atgtcactct tttccaaggc cactttttat
145921 tccttgcgtt ttcacagtga gctgtggtga aaattctaag gcaaatgtta tctggctctg
145981 aaaactgttt ttgtgtgtaa agataggaag gagggatctg agtgccttag gtgtaattca
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FIGURE 1 (continued)

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146041 gttttgcatt tgcattcagt gtcaaagact tggcaggaaa tactactgcc agtggttaga
146101 tgtgtttctt tccctctgag aacagacatg ccattttagc agaatactct ggaatattac
146161 tgcctctgca cggttatgtc ccccaggtaa tgagctgata agggagaggg aagcttaaag
146221 tataaggaag aacttaagtt agtgggtgat gaaataatga aaagcaatca ttcaaaaact
146281 tttgagtgtt acaaatagaa gtgaggaagg gcggggaaag cttgttttta gtgtttggta
146341 atacagacag cagatatgct aagtgtatgc tcatcaagca gctgagactg cctaaaggt
146401 cactgtaaaa aaagactcat ttttaagaaa ggatgtgagg gcttaggaag tcaattttat
146461 ttactttata gctaaacttc acatatacat ttaagaagta ggaaaggagt ctactgacct
146521 tacattactt tgtttcgtca ttgtatcatt gacaaagctg ttacctaagt tattttgata
146581 attttacagt taaagcagat gatataccac attggaacaa ctgttatttt tattgtctat
146641 tatgatctgt ggttgaaaaa aaatactata atataaatgg gaattgcacg tggagtacag
146701 cttattatgt cattaatgtt gtttctagga tagccgtata tctggtggtt atgaaaatgt
146761 cccaactgat gatatccaca tgaagcaagt tgatctggag aatgtatggc ttcattttat
146821 ccgggagttc attgcaccag ttacactgaa ggtctttgca ggctattata cgaaggtagt
146881 tatcctctca cccctccagc ctatttctta cccattttta cacaggtgtt ctttttaatg
146941 tttttattaa taagcaaatc cactggctta ctttgctttt tcagggattt gcactactga
147001 attttgtagt aaaatactcc cctgaacgac agcgttctct tcgtcctcat catgatgctt
147061 ctacatttac cataaacatt gcacttaata acgtgggaga agactttcag gtaattatga
147121 ctcttgtgtt tttagatttt tcaaaagaaa tatatcatta tgaaaaggac tttgccttag
147181 gccttagttt cttttttaaa ttttgctcaa atgacataat ttgaattttg ccactggtta
147241 aatataatct gatgtatttc ttcattttaa cttttttagg gaggtggttg caaatttcta
147301 aggtacaatt gctctattga gtcaccacga aaaggctgga gcttcatgca tcctgggaga
147361 ctcacacatt tgcatgaagg acttcctgtt aaaaatggaa caagatacat tgcagtgtca
147421 tttatagatc cctaagttat ttacttttca ttgaattgaa atttattttg gatgaatgac
147481 tggcatgaac acgtctttga agttgtggct gagaagatga gaggaatatt taaataacat
147541 caacagaaca acttcacttt gggccaaaca tttgaaaaac tttttataaa aaattgtttg
147601 atatttctta atgtctgctc tgagccttaa aacacagatt gaagaagaaa agaaagaaaa
147661 aacttaaata tttatttcta tgctttgttg cctctgagaa taatgacaat ttatgaattt
147721 gtgtttcaaa ttgataaaat atttaggtac aaataacaag actaataata ttttcttatt
147781 taaaaaaagc atgggaagat ttttatttat caaaatatag aggaaatgta gacaaaatgg
147841 atataaatga aaattaccat gttgtaaaac cttgaaaatc agattctaac tggatttgta
147901 tgcaactaag tatttttctg aacacctatg caggtcttat ttacagtagt tactaaggag
147961 acacacaaag aattacacaa cgttttcctc aagaaatgg tacaaaacac aaccgaggag
148021 cgtatacagt tgaaacatt tttgttttga ttggaaggca gattatttta tattagtatt
148081 aaaaatcaaa ccctatgttt ctttcagatg aatcttccaa agtggattat attaagcagg
148141 tattagattt aggaaaacct ttccattct taaagtatta tcaagtgtca agatcagcaa
148201 gtgtccttaa gtcaaacagg ttttttttgt tgttgttttt gcttgtttc ctttttaga
148261 aagttctaga aaataggaaa acgaaaaatt tcattgagat gagtagtgca tttaattact
148321 ttttaaaaaa cttttttaagt acttgaattt tatatcagga aaacaaagtt gttgagcctt
148381 gctttcttcg ttttgccctt tgtctcgctc cttattcttt ttttggggggg aggttattt
148441 gcttttttat cttcctggca taatttccat tttattcttc tgagtgtcta tgttaacttt
148501 cctctatccc gcttataaaa aaattctcca acaaaaatac ttgttgactt gatgtttat
148561 cacttctcta agtaaggttg aaatatcctt attgtagcta ctgtttttaa tgtaaaggtt
148621 aaacttgaaa agaaattctt aatcacggtg ccaaaattca tttttctaaca ccatgtgtta
148681 gaaaattata aaaaataaaa taatttttaga aagttttgtt gttctattat tgggtgttat
148741 cttccaacgt gaatacatga ttggaattgtc tgaagaaatg tagtctttga tttttttatt
148801 tgcttagtag attttaatgat atacgaaact attgaattat aaatgaaatt atgaaaaattt
148861 caattttagg atgactaggg attggatcta acttgttttc caagtgagaa aatagaattg
148921 aaatgttatt caatataggt ttatttgttt attaatattt ttgggtctc tattattggt
148981 caggcactgt tccaggcacc aaggatatgt tgatgaagaa gacattatag tcaatgtgag
149041 atggacttaa aaagataagg aagttggttc tactcctgtt ctcttcttg gcgacactta
149101 atacccaaag aaaattccta ctatccatca actaggataa ggagacattt tagtaatgat
149161 ttgtgaatta tgttactgta catcaggaat ggtttcaaa atatgtaaca cctggtatga
149221 tgtagatgcc aacccatcgg aacagactct ggttataaaa gcagatcggt tcgttcctac
149281 cagtgcaagc cagcttaata tctcttgtgg tacagttcaa agacatctcc caggtactag
149341 ttattttca ttttggtatc catggtggt tacttagcat aactattca gtctcatgcc
149401 atgttttcag aaatgggatc caggtagtct attgagcaca gtttttttgt cttcccttt
149461 atcttacatt ccatgaaata atataaaatg tagctttaaa aagatgattc ataattattg
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FIGURE 1 (continued)

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149521 agagaaaatt agaaaaattc ccataagtag attaaaaaat ttgaaaaacg gaaaacgagt
149581 agaattggaa ggatggagaa aaatacagct tgaaacacac agagcagaag atacagaaag
149641 tacatctatt gtttgattca ttcattttat gcaatataat aaaggctttt taaaaaaaat
149701 acacacacac acccatatat ataaacaatt atccctgaa taatatgggc gttagaggca
149761 ctgatcccca tgcagtcgaa aatccacatg taccttttga ctccctcaac acttatcaac
149821 taataaccta ctgttgactg gaagcctcac tgataacata aacagctgat gaacatttat
149881 tttatatgtt atatgcatta tacactgtat tgttacaata agctagagaa aacgttattt
149941 aaaaaattat aaagaaagat aaaatatatt tactattcat taagtggaag tggatcatca
150001 taaaggtttt catccttgtt gtcttcgcgc tgagtaggct gagaaggaag gggaagagga
150061 agggtgtctc aggggtggca gagacagaaa aaaccggcat acacatgagc ccgcgtagtt
150121 taagcacatg tagtccaagg gcttattgtg tatctgcaac aatcagatat ctctgacaga
150181 tgaacctgat aaagtcacac tatttagagt atgataccat ttatgttaaa aacaaaatac
150241 tatatatgtg tgcataaacc tacagaaaat ttcctagaga ggaacaactc tggagagtgg
150301 tatgagatca cggaggagta aataggattt atgcctttta cgttttacac ttgtgttttt
150361 gaaatattat agaaatatat ttgtatattg attgtttaaa gaaaaaaaga ctagaaggaa
150421 aaggagacat tcacgtaact aatttgaata aatggaagca tatggatgtc aatagtaacc
150481 gtgtgtgtgt gcgcatgtgt gtgtatgtgt atacatacat taccaaggtg cttttaaatgc
150541 tcaccgtggt agaatttttt ctaattctta atgcgcatag gaatcaatat gaatattttc
150601 cttaatatag atacttcagt agtcatccag tgcattaatc ttcattctgc ttcatctttg
150661 aaaacactag taatttatct gtattggtaa cttaactaag aggtcaaata tccttctatg
150721 gaatagaaat gtggaaaaca atgaacatat gagttgagtg gtccatcctc gtcacagaat
150781 ctctttatgt actcacttct gttttcctgt ctgacatacg tatgtcttga tttatttgct
150841 ttttatgccc taaagcccat tttacatgac atgctggtaa cttgtcattc atttggaatt
150901 tggaatggtt attcaacaga tgtcttaaag tttcagaaga gcccagtaga attttttagtc
150961 ataattgagt ctgtgtaaat aactccctct gactagacta gaggttaact gttgcggaat
151021 attgaagtct tcaagacttc atgaaagcag tgtatcaaac agaactgttt gttttgtggt
151081 cttttagaat agcaagccac agcattattt aagaataatt attaacaaaa agccattggg
151141 aagaaaaata gggaaatgta taaaacttt taatgcaatg agttttggat taaaatagaa
151201 gtacactaag aaataatgag aagagaaaat tgtacatgta gaaatgcttt aaaaatgtga
151261 agtattgcat aattacatta ttttgataaa ataaattaga ctgggaatgt aagtaaacag
151321 gctagggatt tgtgaacttt ataagtctta aatctttcta atagcattta aaaatgtacg
151381 caacatcact gttcatcaga gaaatgccaa tcaaaactac agtgagatat tatctcaccc
151441 taattagaat gtcttatatt caaaagacag gcaataacaa atgcttgaga ggatgtggag
151501 aaaagggacc cctccacatt gggaccactg ctgttgagaa tgtaattaat tacaaccact
151561 atggagtaca gtttggaggt tcctcaaaaa aactaaaaat ggagctgcca tatgatacag
151621 caattccagt gcttgatata tacccagaag aaaaagaaat cagtgtgccg aagcaatatc
151681 tgcactcctg tgttgtgtgc agcactgttc acaataggta agattggag acagcctaaa
151741 tgtccatcca cagatgtatg gatatatttt tgttttattc ttaatatatt aaaatagatc
151801 aggaaacatt cattggaaa agtggttca ttcctgacag atattattga agtggtggta
151861 atgtttgttt attaataat tcaagagacg atgagtttag catgctagtc tattttcatt
151921 gaaatttggt tgactcaaaa tctgaatact ctcttttgaa aattagaagt ttctgcctgt
151981 ttaacaatac aaaacacaaa taatcaactg aaagaattat tttagaagat ataaggatg
152041 atcctctagt caatattgga taacaaaata aggatgtaat gtaaccatta cattttgtaa
152101 tggttaatga attattctgt gattaattac aaaataattt gaaagacat tttaacactg
152161 gtttaaagtc actaaatctg ggatcgtgat gtgaaatgac agaataattc tgcatttatt
152221 gaagacaatt tatatatgat aaagctcaat aactgctaag ttagaactgg ataaattaa
152281 tgtagtttt cttctgataa ttaatgcttg gagaactgat caatttaaa tagtttattt
152341 ttgcaagatg agattatcct attttattaa actattttcg tctgtacttt attttttttt
152401 gtatcttaca aatcttgcca aattgtgaca tcaagatctc acttgtggtt gaaaatattt
152461 agctaaattt aagcaaatg caagagcttt ataaaatcat gctatcaaat ttttttttt
152521 aggctaatac taataaaatg ataaatattg gatgctttta ttaggaatt attatatat
152581 ttttaagtat gatacaatac aacatttaa aaggaagaat tgttatatct tattttgaaa
152641 taaggagtag ctagcatatt ttagttaat actgttgaag tgatttgttt ttgttttta
152701 tttaattgt aaactgctaa tctatgttca atagagaata ttacttgga ttaataataa
152761 aataagcata agagtagtca gattcgacta caactgataa agcaattgt ttagagtaga
152821 taaaattact taatttacat aatattaaaa caacagctcc ataggtcct attgtaaaaa
152881 caaaatttta aaaattgttc tttgttagga aaaggtcaat agtaatttt cttttattat
152941 tgtatggaac tggttagtgc aactatgagg acaagagtct tgttgtaaaa cttggttgtt
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FIGURE 1 (continued)

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153001  tcagatactg  tgaaagttac  aatccttgtt  ttgacttttt  gaagattaac  aaaatttatt
153061  cctgctgaag  ttatgcacta  aattagttct  aatttactcc  agctgttgca  catttactta
153121  ctgaccacac  agccacgctg  atcacccttt  tcttcctttg  ggtcacttag  tgtcttggct
153181  gctggatgaa  atcaagggga  tcttcagcta  atgctagagt  ggcatcattg  attttcatat
153241  tgtctcagac  agctttccca  ttgacctatg  agccaagagg  agagggaatt  ttaaaaatat
153301  gtgtttttga  aacgattttg  tgcctgtgat  agcaagtcga  caaagatggt  cctcaatgaa
153361  ccatgcctcc  cagtactcat  accattgtga  acccaggtgg  gtcctttgta  accaatagaa
153421  tgcagtagaa  gtgactgcct  aatttccaca  ttgagttatg  agaagctttg  tggttttgag
153481  ctcttggaac  atttactgtt  agggcattct  ctgtagaatc  caggtaccat  gctgtgccca
153541  tgccacatgg  caaggccatg  tgcaagcact  gtggccaaca  gctgaaacca  agctcctgca
153601  tcaacttcta  ccacatgagt  gaattatttg  gacatcagtc  ccagacaaat  cccagttcag
153661  atgaatatag  ctcctgtcaa  catctgcctg  caaccacatg  tgagacccct  cagccaagaa
153721  acacccagct  gagctaagca  aacccataca  gaactataaa  agatgataat  ttattgagtc
153781  actaagtttc  cacatggttt  gttacacaaa  aatggataac  tgaaacagga  ttaattgcct
153841  ataatgtatc  tctaataggc  tttccttctc  agagcacttt  gcatactgga  ttgttactta
153901  cctttcattc  tcctcaataa  ggccgtgggc  tccttgaggg  caaggactgg  gtcttattcc
153961  accttttcag  ttttagcata  tagtctggca  tatagtaggt  atttgtgtgt  taactggaag
154021  ttggttttat  atctgaaatt  ttattgtatt  tgaatcaaaa  tgatccctga  ggggaatag
154081  gtgtttgaa  tttaagaggt  agccaaaaaa  taaacctatg  tgtactgtag  ttgtgtgaag
154141  taaagatgtg  tgaaatattg  tacagtttgt  ccctgaataa  aggaatatgt  aggtggcctc
154201  aagttggata  cagtgatgca  ctaagacagt  ataaaaggaa  actgctatca  ctgttatcct
154261  cagcattctg  ggccaaagga  ctgagagagg  gagggttcag  tttatgagta  atttgcttag
154321  tgtatgctta  ctgtgtgtat  ttgtattaaa  cattcaataa  gtgtttcaaa  ttgaatttac
154381  ttttatacat  cttaaagcag  ttttctaaaa  ggtgctttaa  aaagtgttat  tttatatagt
154441  gactacaaat  tctatatctt  atcctctaag  tttaaactag  aaaatagttc  taaaatagaa
154501  atatgtgaag  acagtggatt  ttcaaatgcc  aaggaaagtg  tagctttgat  atgtactgac
154561  tctggaacta  gtgttgttac  cccagttaca  gattcgattg  cccattgggt  gtggcctttc
154621  ttggtttga  ccaaatgtca  ttttaacatc  tattcagtct  ggtcttaaaa  atgtgataaa
154681  taatggaatg  aaaactttat  aatttcagaa  ttatggacct  gtaggactct  gttcaaaata
154741  tgaattattt  aggaaagtta  taactgtgat  gatgtcagaa  aaaatagaac  ttagaacctc
154801  tcttgaggtt  cttgtgaagt  cctatttttt  aatcaatata  gaggagctat  ttttaaaatt
154861  ggtaagtgaa  ttgcccaatc  tgagatattt  aaaaggtacc  aaagagcaaa  tttaagtgca
154921  taaagtaata  agaattaaga  gggagcaatg  agattcagga  gttatgatta  attatatttc
154981  aagtaggtat  gtggagaatg  aacataaaca  catctaactt  gccatctaac  ttgccattga
155041  ttagagGGGt  ttcatctaat  ttgggacatt  tgttttgaca  ttaaattttc  taatctatta
155101  tttttggaca  gaatatcatc  tacactgtat  tctagacagt  ttcatcctcc  aatagatttt
155161  cttgcaaatt  tttaatccaa  tgttacatta  tttttttaag  ttctaaaatg  aagatagaat
155221  aagaattaca  gaacatgtac  ttgtctgtat  tacataatta  attagtgtcc  tctctcagat
155281  gcttgtagcc  ctgaatctta  atcttcattg  agggtttact  tttgttgaca  gttacatgta
155341  tagctagctg  aatatacgtg  ggcttccag  attttcctacc  taccaatagt  taggtgggat
155401  tatggaactg  cttttggcca  gtggccaatg  aatggaagtt  atgtggatta  cttgcaaagc
155461  cacacattta  tgagcccgtt  ttagagacct  tgaagcatat  gtattgagat  gcctggatct
155521  ctgaatcact  atttggaagt  aagttgtcct  taatagctgc  taggaccaca  acagattcat
155581  acgagagaga  aatgaagttt  tctatgttaa  gccactgaag  tttcaaggct  tgcaagacg
155641  cttattttaa  cctgactaaa  acaacaatca  catgtgtgag  aaaaagatat  acactttatt
155701  aggagaagat  gaatttaggt  ttatgttgat  ttacaaataa  taaaaatcta  gagttatctt
155761  aggattttgt  gatttaattt  gtgtcatcga  acaatagaat  ctgaggactg  gaagtagtgt
155821  taaaagctat  atagtccaaa  gctgtccta  cctctacctt  aaacaaatca  tctttcaggt
155881  tttcctggtt  gttgatcacc  caggtttact  tgaaaacttc  attagtgaa  tgttcattag
155941  tatctgttac  aagccatgt  acctgaaatt  acaaacatga  tttagatatc  aacctgtat
156001  tacaatctgg  tgacaggcaa  tttactgcat  tctaacacag  aaacagcaaa  gctttttcca
156061  taactgtaat  gaagactgtc  ttttgtaact  tctttgtaaa  gtttatgtgg  gtatacttgg
156121  aaattatatg  aaaaacctaa  tacttttaa  tatgggttta  taaaatattt  aacagccgta
156181  atcacaacag  ttgcctccca  cctaccaccc  ctctatgcct  caccttatta  ccttttccac
156241  attaaaaaat  accagattct  tcactagtct  ttgtctgacc  accctcactg  ctcctcccag
156301  ctgactggct  tgctgatttt  acaaagtcct  agtatcagta  tcactctcct  ctacattgg
156361  aatggtttat  caacatagct  gtggaagggt  ggtggccaga  tctgaactta  atatgctagg
156421  tagtactagg  tataagtggt  atagaagcaa  agagaagact  cattcatatt  ttgtatttt
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FIGURE 1 (continued)

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156481  tgctaataaa attaagtatc aaattacttt tggtgaggga tgggcaactg tattgtactg
156541  ctgataattt gcagtcagga aaaattttgt tttccttctc ataacaacac tgttaagcca
156601  tgattcagtt tactttcaca ttttttcttga gccaagtata gaatgctatt aaattaaatt
156661  ttattggttt taaattataa ttttagcctg tttcaatctt tgtgaaagct aattctatca
156721  ctcaacataa ttaagttatt ctcctcttgg gctcgtgcca cccaaaatga tgagctagct
156781  ttcgacaact gagtcttggt aatttacaaa actgttcaga aagacgaacc aaaatttgaa
156841  tggcttgctg tgttctgtat aaatttataa tcgaaagtct gatcatggct acaggttttt
156901  tttttttttt aacttgttct gtttttcaac aaacaatata cttatttgca attaaatgaa
156961  aataaagcat tgaattctga agttttagag aatgacctta gagattttta gtggttgtca
157021  gccttagcct cctattaaaa tcatctggga actattaaaa gcatttaatg ttgtgaccct
157081  acctagacct attaaattcc attctctggg gtgaagccag gccatcagtt attttaaaag
157141  ttctccaagt gcttctaatg tgcagcacag gttgggagaa tctgatctag cttagcactt
157201  aaaggttata gtgctaccac tacataacac ttctatattg agtttactgt agtatattaa
157261  tggagctatc ttaagtggaa aatgtctgat caatcattaa atagcaatct aagtgaaatc
157321  tataactaaa atttctatct ggaaagacaa aaagaaaaac caacttctct ttgagggtat
157381  gctatacccca gagacttggc tagtgctaag gagggcatgg tagacttccc gaggtcacac
157441  aaagaacaag cagctcatgc ttggttctac ccaatagtct gagtcccctc agtcactctg
157501  ttttagcctc taaaccacta ggacgtgatt tgagaaattt catgaagcct caaggtgttc
157561  tttcaggtta tttgtacaat ggggaagaaa atatctatag ttcaacctct ttcccatact
157621  catgacagat cacctggcct gtgcttcagt attttacaga ttgttcatct gtggctgaaa
157681  agctcttatc aaaatgctct tactttttatt gagctgataa agttgccatc ctaacttcta
157741  tccattggtt ctggctctgc ctcctggagg aacacagact atgttgattg tctttttccct
157801  gtgttagcaa tgcagatgga ttgtaatttt cctaaatctg ctcttcaaga aaagatttca
157861  agttttgaaa accatatcat catcctgtcc tcggtgacac ctgtttctct cctttgtcaa
157921  catcacccttt cacaatgtgt cacctggata gcagatcgaa caacctggct ataatagtgg
157981  ttctgatagc ctcctttgat ctcgtcattg tattctagaa atgaagccca agatttttatg
158041  tattttttacc gcggtcatac cacgttgatt taaaagatca atgattttca agccaggctg
158101  gacattaaaa tcacttggga gagctttgaa aaaatatagc gatatcctgt tttaccccttg
158161  atcaattaaa tcagaatctc tggggataag gcccaggtac agtgattttt aaaagtactt
158221  caatgaccct aatatgcatc taagtgagtt ctatccttaa atgtggtttc tctcaatttg
158281  taggtaaata caatattttg ttgttgtttg aatgtaaata tcaggctttt gatctgttct
158341  agtttaattt tctgataata gtagtcccag aattttcaaa tgcaattctt taagattgca
158401  atgaagttag aactcttacg ttactgttta tgtccacaaa atgtttagaa aagtttgaaa
158461  aggattttga aaaagattaa cagtgttaat atttcttata ttgttgggtt tatgcataat
158521  ataatttggt taatatgtat cataaataaa agtattttaa gatcacattg tgaacttgta
158531  tcatcattga tagcaaatga catagctcat aagcatggga tccaaaattg gttttccaaa
158641  tttaaggact ttccaagtaa aacaaatttt aatgctatgc tcattgcttc tctttttatt
158701  taaaacattg ggttttaaga cataaccaaa ataaactact ttttattcct ttgactttag
158761  atatctttca gctgttaaaa gggagtgttgt ttcataaagc ctgacagaaa actttcagtc
158821  tctcctcatct gaaattaatc acagtattga ataagagtta cccggaacaa ctgcaatgat
158881  ttaaatttgt gaccctggat catttggcaa aggcattttt cccccaaagt tttaagatt
158941  gcctgagtat ttcagcatag tgaatagaat tttataaaaa tcagtgttat tagccatttg
159001  cataaaaggc aagtagcaac cttcatggta tcccccatta ttcttgaaat attgcataca
159061  ttgttggtga gatgatatac aattctaaag gcactggttc ataggctaaa gtatgataca
159121  ttgatattta tactatctgt cacactcaaa atgaattaga gatagtccaa aggaataatg
159181  taaatactat taaaacgaag acaagaaagg tcagaaaaca ctgagacaaa gcagttgaga
159241  ggcttattgt aattgcacac acacacaaaa aactatcatt aagctctttt gatgccagct
159301  caaaagaaac acaatgggtt atgtatttga ggcctcctta tattttcata aaggcatttt
159361  tcttagttaa ccctcattta ttctatgtat acattagaac ttcaccaaga gattagtct
159421  tgctttcaac tctgagttct aatcttatct gtgcttaagg gcctccagta ggtcaagtaa
159481  caagttaaca ccgatgcctg cctgcttg acttttttctt tcaaatctgt taacatctat
159541  tttgagcaaa tggataaact gtgtattcca cttactagaa ctggattgt ttgttcctt
159601  ttgtttggaac acttttctag atatcttgat tctcatagct gttaccataa gactgaagtc
159661  ctattaggga tttaaaaagg tcagttttttg ctttatgaag atttccatta gcctttgaca
159721  cgcaaaagat tacataacaa accacctcca aacacagtgc tttaacatgc tgataattaa
159781  tcttactgat ctgtgggtta gttaggttta gtttagcgag atttctcca ttacacatct
159841  ctcatctcc tcccagggca agtgggctaa ccccagcaat gttttcctca tgacaacctt
159901  agaggtaaaa ggggcaaat agaaacatac aaggcctctt aaggctagg cttgaaactg
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FIGURE 1 (continued)

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159961 gcacatgatc acttctactt tattcttttg ctaaaacaag ttatatagct gaacccaaat
160021 tgagtgatgg agaaatactc ttggaacttt tactaggaga aactgtaaag tcatatggca
160081 gaaaatattg aacctcggag tgttttttgga ggatataaat tgttatttaa atacattaaa
160141 atttgtgatt tcaatttaaa aattaatgtg ttgtccgggt gcggtggctt atgcctgtaa
160201 tcccaacatt ttgggaggct gagtgggtgg atcatgaggt caagagatca agaccattct
160261 ggccaacatg gtgaaactct gtctctacta aaaatacgaa aattagctgg gcatggtggt
160321 gcacgcctgt agtcccagct actcaggaag ctgaggcagg agatttgctt gaacccggga
160381 ggcagaggtt gcagtttgcc gagatggtac cactgtactc cagcctggcg acagagcaag
160441 actctgttcc aaaaaaaata aaaaaataaa aaataaaaaa taatgtgtta atgtattacc
160501 aaattaccat tgtaacatct accagtaaaa tgattttttcc tttagcaatt cattttctttc
160561 aagaaatgct tgagggccca gtcagaagac tatttacctt ttcttctgac ataaaactca
160621 cataatcttg ggcaattaag ttttttttctc aacaaaactt ttttttttttt ggtgtacagt
160681 tttaacataa aggtagattt gtgtaacaat cactataatc agaatataaa cagccaaatc
160741 acaccaaaca atttttttttg ttgccccttt gtagttaaaa cttccccttc ctcataacac
160801 caactaaact gatcttctat atagttttgc cttttctaga ttggcatata aatggaatca
160861 tacagtatgt aaccttttga aaatgcttct ttcactcagt ataatacctt tgggaatcaa
160921 cagtgctatt gcatcgataa attttttcctt tttattgcag agtagtaatc cattacatgg
160981 ataaattaca gatttaaccc atttacctac caaaggacat ttgagttgtt tccagttttg
161041 agtaattact acaaacaaaa ttttttagaaa cattcatgta catgtttatt gtgactatag
161101 attttcatta ctctaaaata gatagctaag aatgatatac tatcctatgg taagtagctt
161161 ctgttttaat tccactgttt gtgcctttt ggattattcg aatgttttaa gaattccatt
161221 ttatctatta cattttttgaa tatcttccca gtggctactc tagagattac tctctctctc
161281 tttccctctc tctctctcta tatatatact taactttttca cagtttactt agaattaata
161341 ttccccttca tgttttaatt gtaatactta ttaactctgt atattaaaca accatccaaa
161401 atgttataat ttttgctttt aacaattata catctttttta aaacttgggc ataaaacagt
161461 ctataatatt catgtggatg ttaccatttg tgttgctctt ctttcaggtt tccctctagt
161521 accttttccc ttccacctga aaaaattatg cattttattt catagtagat ttgctgttga
161581 tgaattctat tagttttcat tcattccaaa acgctccttt atttcatctt tgttttttat
161641 tggtgctatt ggttttattt ttgtgggtac a
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FIGURE 1 (continued)

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mggctvkpql lllalvlhpw npclgadsek pssiptdkll vitvatkesd gfhrfmqsak 61
yfnytvkvlg qgeewrggdg insigggqkv rlmkevmehy adqddlvvmf tecfdvifag 121
gpeevlkkfq kanhkvvfaa dgilwpdkrl adkypvvhig krylnsggfi gyapyvnriv 181
qqwnlqdndd dqlfytkvyi dplkreaini tldhkckifq tlngavdevv lkfengkara 241
kntfyetlpv aingngptki llnyfgnyvp nswtqdngct lcefdtvdls avdvhpnvsi 301
gvfieqptpf lprfldillt ldypkealkl fihnkevyhe kdikvffdka kheiktikiv 361
gpeenlsqae arnmgmdfcr qdekcdyyfs vdadvvltnp rtlkilieqn rkiiaplvtr 421
hgklwsnfwg alspdgyyar sedyvdivqg nrvgvwnvpy manvylikgk tlrsemnern 481
yfvrdkldpd malcrnarem gvfmyisnrh efgrllstan yntshynndl wqifenpvdw 541
kekyinrdys kifteniveq pcpdvfwfpi fsekacdelv eemehygkws ggkhhdsris 601
ggyenvptdd ihmkqvdlen vwldfirefi apvtlkvfag yytkgfalln fvvkysperq 661
rslrphhdas tftinialnn vgedfqgggc kflryncsie sprkgwsfmh pgrlthlheg 721
lpvkngtryi avsfidp
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FIGURE 2